Pioneer sound.vision.soul

Service Manual

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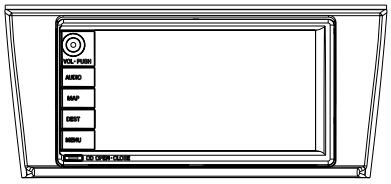

AVX-MG2037ZF/XN/UC

ORDER NO.
CRT3093

RECEIVER ASSY WITH NAVIGATION DISPLAY

AVX-MG2037ZF$_{XN/UC}$
AVX-MG2137ZF$_{XN/UC}$
AVX-MG2237ZF$_{XN/UC}$
AVX-MG2337ZF$_{XN/UC}$

This service manual should be used together with the following manual(s):

Model No.	Order No.	Mech.Module	Remarks
CX-951	CRT2872	G2	CD Mech. module:Circuit Description, Mech.Description, Disassembly

COMPACT disc DIGITAL AUDIO

For details, refer to "Important symbols for good services".

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ⓒ**PIONEER CORPORATION 2003**
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● CD Player Service Precautions

1. Before disassembling the unit, be sure to turn off the power. Unplugging and plugging the connectors during power-on mode may damage the ICs inside the unit.
2. To protect the pickup unit from electrostatic discharge during servicing, take an appropriate treatment shorting-solder by referring to "the DISASSEMBLY" on page 120.
3. After replacing the pickup unit, be sure to check the grating. (See p.108.)

VEHICLE	DISTINATION	PRODUCED AFTER	OEM PARTS No.	ID No.	PIONEER MODEL No.
LINCOLN LS	U.S.A. , CANADA	October 2003	4W4T-18K931-C	•••••	AVX-MG2037ZF/XN/UC
LINCOLN TOWNCAR	U.S.A. , CANADA	October 2003	4W1T-18C985-C	•••••	AVX-MG2137ZF/XN/UC
LINCOLN NAVIGATOR	U.S.A. , CANADA	October 2003	4L7T-18C985-D	•••••	AVX-MG2237ZF/XN/UC
LINCOLN AVIATOR	U.S.A. , CANADA	October 2003	4C5T-18C985-D	•••••	AVX-MG2337ZF/XN/UC

SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer.
Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

[Important symbols for good services]
In this manual, the symbols shown-below indicate that adjustments, settings or cleaning should be made securely.
When you find the procedures bearing any of the symbols, be sure to fulfill them:

1. Product safety

You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.

2. Adjustments

To keep the original performances of the product, optimum adjustments or specification confirmation is indispensable. In accordance with the procedures or instructions described in this manual, adjustments should be performed.

3. Cleaning

For optical pickups, tape-deck heads, lenses and mirrors used in projection monitors, and other parts requiring cleaning, proper cleaning should be performed to restore their performances.

4. Shipping mode and shipping screws

To protect the product from damages or failures that may be caused during transit, the shipping mode should be set or the shipping screws should be installed before shipping out in accordance with this manual, if necessary.

5. Lubricants, glues, and replacement parts

Appropriately applying grease or glue can maintain the product performances. But improper lubrication or applying glue may lead to failures or troubles in the product. By following the instructions in this manual, be sure to apply the prescribed grease or glue to proper portions by the appropriate amount.For replacement parts or tools, the prescribed ones should be used.

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1. SPECIFICATIONS

General

Power source . . . . . 14.4V(10.5V-16.0V allowable) DC
Grounding system . . . . . Negative type
Backup current. . . . . 3mA or less
Dimensions(AVX-MG2037ZF)246(W) x112(H) x188(D)mm
(AVX-MG2137ZF) 191(W) x109(H) x185(D)mm
(AVX-MG2237ZF) 201(W) x109(H) x183(D)mm
(AVX-MG2337ZF) 201(W) x109(H) x183(D)mm
Weight 2.7kg

CD player

System. . . . . Compact disc audio system
Usable discs . . . . . Compact disc
Signal format. . . . . Sampling frequency : 44.1kHz
. . . . . Number of quantization : 16;linear
S/N. . . . . 75dB or more
Distortion . . . . . 0.1% or less

FM tuner

Frequency . . . . . 87.75, 87.9–107.9 MHz
S/N. . . . . 58dB or more
Distortion . . . . . 1.5% or less
IF interference . . . . . 95dB or more
Image interference. . . . . 45dB or more
Stereo Separation . . . . . 25dB or more(400Hz)

AM tuner

Frequency . . . . . 530–1710 kHz
S/N 20dB usable sensibility . . . . . 33dBμ ± 6dB
S/N. . . . . 50dB +10dB, -6dB
Distortion . . . . . 1.0% or less
IF interference . . . . . 75dB or more
Image interference. . . . . 60dB or more

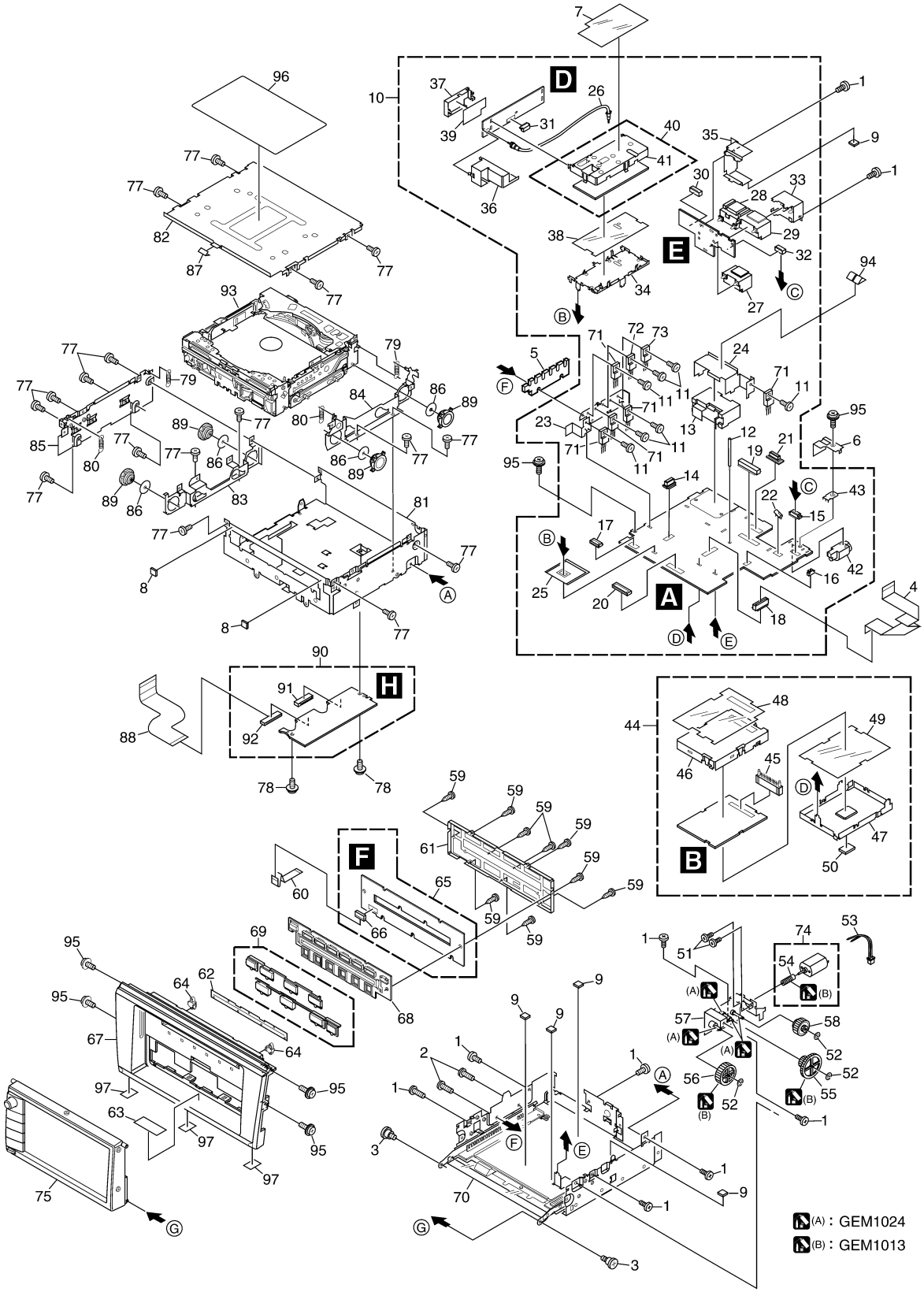
Display

Screen size/Aspect ratio . . . . . 6.5 inch wide/16:9
(effective display area). . . . . 143.4 x 79.3 mm
Pixels . . . . . 93,600(400 x 234)
Sub pixels . . . . . 280,800(1200 x 234)
Type . . . . . TFT active matrix
Color system. . . . . NTSC compatible

2. EXPLODED VIEWS AND PARTS LIST

NOTES : • Parts marked by " " are generally unavailable because they are not in our Master Spare Parts List.*
• Screw adjacent to▽mark on the product are used for disassembly.
• For the applying amount of lobricants or glue, follow the instructions in this manual.
(In the case of no amount instructions,apply as you think it appropriate.)

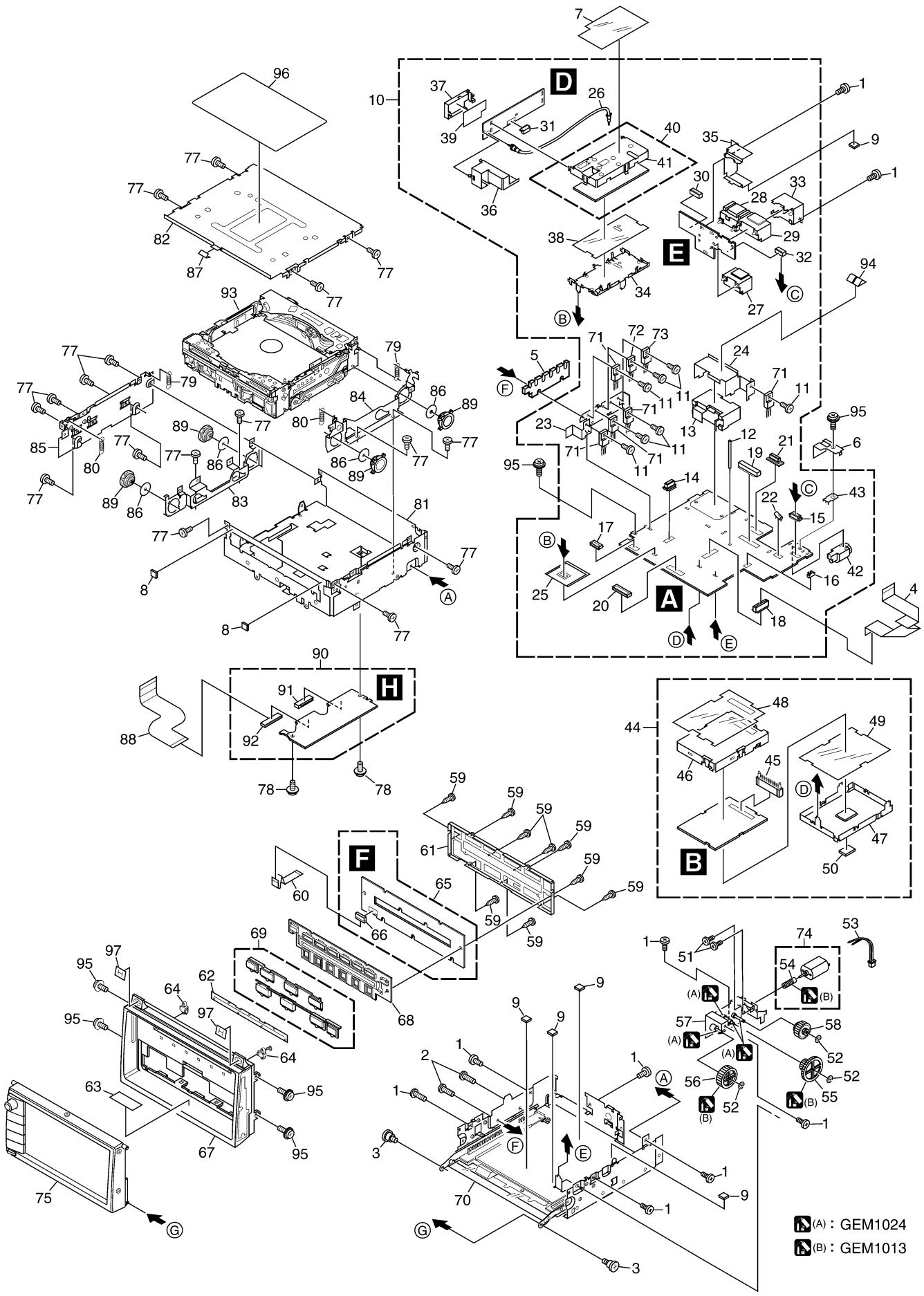
2.1 EXTERIOR(1)(AVX-MG2037ZF)



EXTERIOR(1)(AVX-MG2037ZF) SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	Screw	BMZ26P040FTC
	2	Screw	BMZ26P080FTC
	3	Screw(M2x2)	CBA1735
	4	Connector	CDE6618
	5	Heat Sink	CNC9449
	6	Shield	CNC9995
	7	Insulator	CNM7884
	8	Spacer	CNM7885
	9	Cushion	CNM7904
	10	Tuner Audio Unit	CWM9102
	11	Screw(M2.6x6)	CBA1732
	12	Clamper	CEF1034
	13	Connector(CN901)	CKM1349
	14	Connector(CN404)	CKS2811
	15	Connector(CN904)	CKS2811
	16	Connector(CN905)	CKS3124
	17	Connector(CN751)	CKS3810
	18	Connector(CN907)	CKS3859
	19	Connector(CN551)	CKS3982
	20	Connector(CN771)	CKS4052
	21	Connector(CN906)	CKS4065
	22	Connector(CN403)	CKX1044
	23	Holder	CNC9439
	24	Holder	CNC9440
	25	Shield	CNM7725
	26	Connector	CDH1311
	27	Connector(CN2802)	CKM1346
	28	Connector(CN2803)	CKM1347
	29	Connector(CN2804)	CKM1348
	30	Connector(CN2801)	CKS4066
	31	Connector(CN1402)	CKS4515
	32	Connector(CN2805)	CKS4515
	33	Holder	CNC9441
	34	Holder	CNC9442
	35	Holder	CNC9599
	36	Shield	CND1151
	37	Shield	CND1152
	38	Insulator	CNM7291
	39	Insulator	CNM7860
	40	FM/AM Tuner Unit	CWE1635
	41	Holder	CNC8855
	42	Antenna Jack(CN401)	HKX1054
	43	Terminal(CN402)	VNF1084
	44	DSP Unit	CWM7805
	45	Connector(CN1001)	CKS3981
	46	Shield	CNC9444
	47	Shield	CNC9445
	48	Insulator	CNM7289
	49	Insulator	CNM7290
	50	Conductor	CNM7728
	51	Screw	BMZ20P025FTC
	52	Washer	CBF1039
	53	Connector	CDE6704
	54	Gear	CNV5296
	55	Gear	CNV5297
	56	Gear	CNV5298
	57	Holder Unit	CXB7342
	58	Torque Limiter Unit	CXB8742
	59	Screw	BPZ20P060FTC
	60	Connector	CDE6619
	61	Holder	CNC9435
	62	Cover	CNM7367
	63	Cushion	CNM7905
	64	Lighting Conductor	CNV6802
	65	Panel PCB Unit	CWM7801
	66	Connector(CN1801)	CKS3965
	67	Panel Unit	CXB7756
	68	Housing Unit	CXB9194
	69	Button Unit	CXB9373
	70	Chassis Frame Assy	CXC2108
	71	Transistor(Q351,752,905,909,913)	2SB1185
	72	Transistor(Q902)	2SB1299
	73	Transistor(Q912)	2SB1299
	74	Motor Unit(M901)	CXC1191
*	75	Grille Assy	CXC2124
	76	•••••	
	77	Screw	BMZ26P040FTC
	78	Screw(M2x2.5)	CBA1624
	79	Spring(Black)	CBH2482
	80	Spring(Silver)	CBH2481
	81	Chassis	CNA2414
	82	Case	CNB2758
	83	Bracket	CNC9443
	84	Bracket	CNC9601
	85	Holder	CNC9612
	86	Sheet	CNM5981
	87	Sheet	CNM7731
	88	Flexible PCB	CNP7328
	89	Damper	CNV6608
	90	Control Unit(G2F)	CWX2589
	91	Connector(CN601)	CKS1956
	92	Connector(CN101)	CKS4512
	93	Service Mechanism Unit(G2AVX)	CXX1657
	94	Stick Finger	DNB1092
	95	Screw	IMS26P050FTC
	96	Label	CRW1462
	97	Sheet	CNM8173

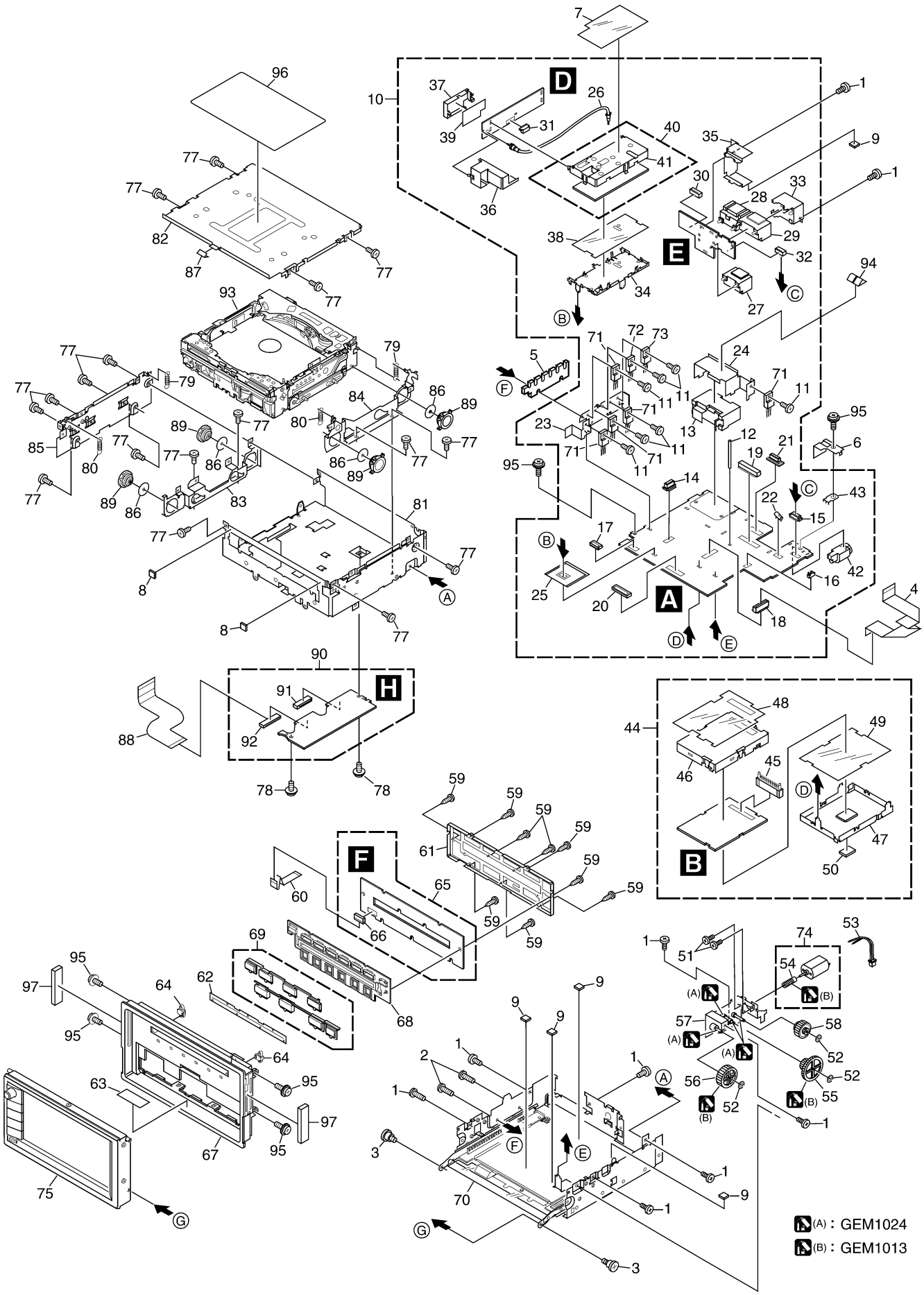
2.2 EXTERIOR(1)(AVX-MG2137ZF)



EXTERIOR(1)(AVX-MG2137ZF) SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	Screw	BMZ26P040FTC
	2	Screw	BMZ26P080FTC
	3	Screw(M2x2)	CBA1437
	4	Connector	CDE6618
	5	Heat Sink	CNC9449
	6	Shield	CNC9995
	7	Insulator	CNM7884
	8	Spacer	CNM7885
	9	Cushion	CNM7904
	10	Tuner Audio Unit	CWM9103
	11	Screw(M2.6x6)	CBA1732
	12	Clamper	CEF1034
	13	Connector(CN901)	CKM1349
	14	Connector(CN404)	CKS2811
	15	Connector(CN904)	CKS2811
	16	Connector(CN905)	CKS3124
	17	Connector(CN751)	CKS3810
	18	Connector(CN907)	CKS3859
	19	Connector(CN551)	CKS3982
	20	Connector(CN771)	CKS4052
	21	Connector(CN906)	CKS4065
	22	Connector(CN403)	CKX1044
	23	Holder	CNC9439
	24	Holder	CNC9440
	25	Shield	CNM7725
	26	Connector	CDH1311
	27	Connector(CN2802)	CKM1346
	28	Connector(CN2803)	CKM1347
	29	Connector(CN2804)	CKM1348
	30	Connector(CN2801)	CKS4066
	31	Connector(CN1402)	CKS4515
	32	Connector(CN2805)	CKS4515
	33	Holder	CNC9441
	34	Holder	CNC9442
	35	Holder	CNC9599
	36	Shield	CND1151
	37	Shield	CND1152
	38	Insulator	CNM7291
	39	Insulator	CNM7860
	40	FM/AM Tuner Unit	CWE1635
	41	Holder	CNC8855
	42	Antenna Jack(CN401)	HKX1054
	43	Terminal(CN402)	VNF1084
	44	DSP Unit	CWM7805
	45	Connector(CN1001)	CKS3981
	46	Shield	CNC9444
	47	Shield	CNC9445
	48	Insulator	CNM7289
	49	Insulator	CNM7290
	50	Conductor	CNM7728
	51	Screw	BMZ20P025FTC
	52	Washer	CBF1039
	53	Connector	CDE6704
	54	Gear	CNV5296
	55	Gear	CNV5297
	56	Gear	CNV5298
	57	Holder Unit	CXB7342
	58	Torque Limiter Unit	CXB8742
	59	Screw	BPZ20P060FTC
	60	Connector	CDE6619
	61	Holder	CNC9435
	62	Cover	CNM7367
	63	Cushion	CNM7905
	64	Lighting Conductor	CNV6802
	65	Panel PCB Unit	CWM7801
	66	Connector(CN1801)	CKS3965
	67	Panel Unit	CXB7757
	68	Housing Unit	CXB9194
	69	Button Unit	CXB9374
	70	Chassis Frame Assy	CXC2110
	71	Transistor(Q351,752,905,909,913)	2SB1185
	72	Transistor(Q902)	2SB1299
	73	Transistor(Q912)	2SB1299
	74	Motor Unit(M901)	CXC1191
*	75	Grille Assy	CXC2125
	76	•••••	
	77	Screw	BMZ26P040FTC
	78	Screw(M2x2.5)	CBA1624
	79	Spring(Black)	CBH2482
	80	Spring(Silver)	CBH2481
	81	Chassis	CNA2414
	82	Case	CNB2758
	83	Bracket	CNC9443
	84	Bracket	CNC9453
	85	Holder	CNC9438
	86	Sheet	CNM5981
	87	Sheet	CNM7731
	88	Flexible PCB	CNP7328
	89	Damper	CNV7328
	90	Control Unit(G2F)	CWX2589
	91	Connector(CN601)	CKS1956
	92	Connector(CN101)	CKS4512
	93	Service Mechanism Unit(G2AVX)	CXX1657
	94	Stick Finger	DNB1092
	95	Screw	IMS26P050FTC
	96	Label	CRW1462
	97	Insulator	CNM8116
	98	Insulator	CNM8126

2.3 EXTERIOR(1)(AVX-MG2237ZF,AVX-MG2337ZF)



(1)EXTERIOR(1)(AVX-MG2237ZF,AVX-MG2337ZF) SECTION PARTS LIST

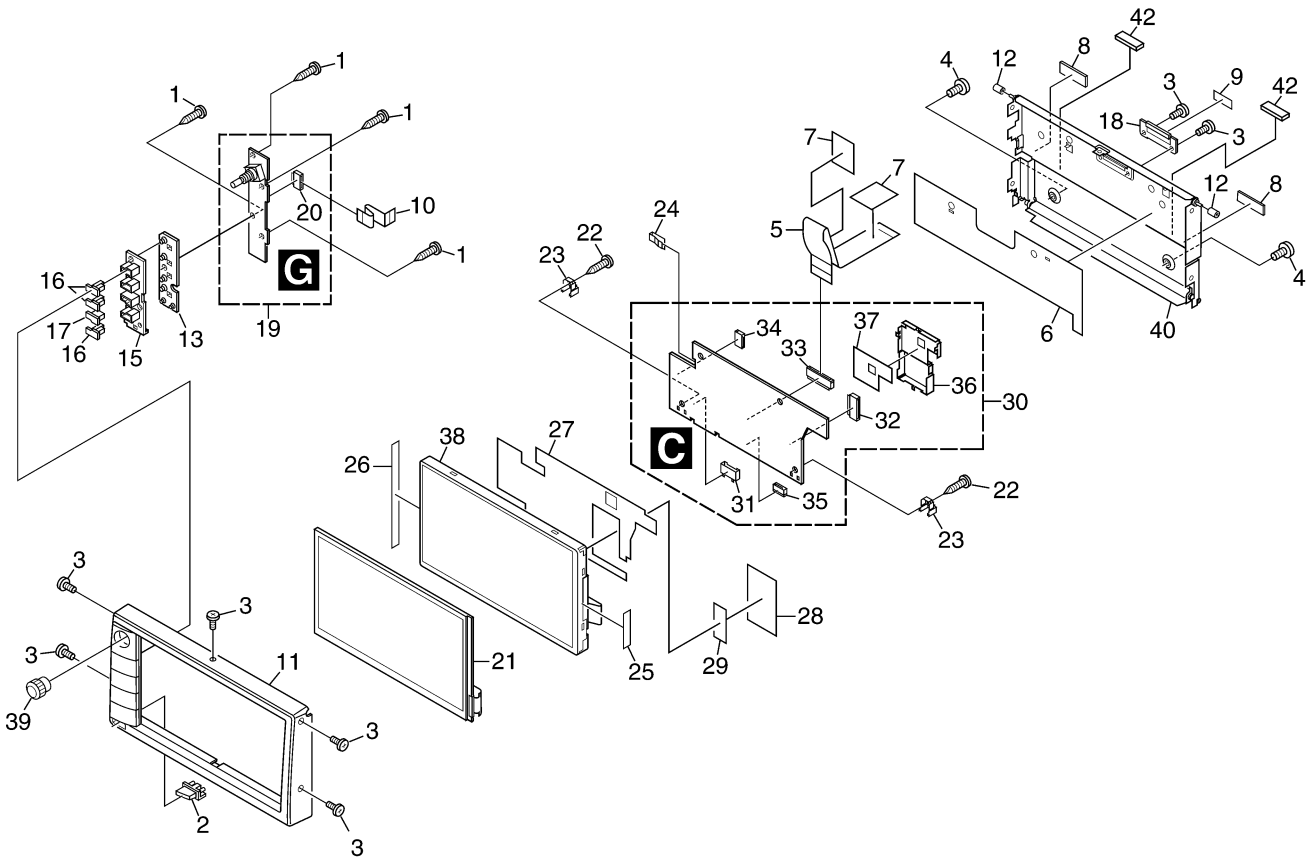
Mark	No.	Description	Part No.
	1	Screw	BMZ26P040FTC
	2	Screw	BMZ26P080FTC
	3	Screw(M2x2)	CBA1735
	4	Connector	CDE6618
	5	Heat Sink	CNC9449
	6	Shield	CNC9995
	7	Insulator	CNM7884
	8	Spacer	CNM7885
	9	Cushion	CNM7904
	10	Tuner Audio Unit	See Contrast table(2)
	11	Screw(M2.6x6)	CBA1732
	12	Clamper	CEF1034
	13	Connector(CN901)	CKM1349
	14	Connector(CN404)	CKS2811
	15	Connector(CN904)	CKS2811
	16	Connector(CN905)	CKS3124
	17	Connector(CN751)	CKS3810
	18	Connector(CN907)	CKS3859
	19	Connector(CN551)	CKS3982
	20	Connector(CN771)	CKS4052
	21	Connector(CN906)	CKS4065
	22	Connector(CN403)	CKX1044
	23	Holder	CNC9439
	24	Holder	CNC9440
	25	Shield	CNM7725
	26	Connector	CDH1311
	27	Connector(CN2802)	CKM1346
	28	Connector(CN2803)	CKM1347
	29	Connector(CN2804)	CKM1348
	30	Connector(CN2801)	CKS4066
	31	Connector(CN1402)	CKS4515
	32	Connector(CN2805)	CKS4515
	33	Holder	CNC9441
	34	Holder	CNC9442
	35	Holder	CNC9599
	36	Shield	CND1151
	37	Shield	CND1152
	38	Insulator	CNM7291
	39	Insulator	CNM7860
	40	FM/AM Tuner Unit	CWE1635
	41	Holder	CNC8855
	42	Antenna Jack(CN401)	HKX1054
	43	Terminal(CN402)	VNF1084
	44	DSP Unit	CWM7805
	45	Connector(CN1001)	CKS3981
	46	Shield	CNC9444
	47	Shield	CNC9445
	48	Insulator	CNM7289
	49	Insulator	CNM7290
	50	Conductor	CNM7728
	51	Screw	BMZ20P025FTC
	52	Washer	CBF1039
	53	Connector	CDE6704
	54	Gear	CNV5296
	55	Gear	CNV5297
	56	Gear	CNV5298
	57	Holder Unit	CXB7342
	58	Torque Limiter Unit	CXB8742
	59	Screw	BPZ20P060FTC
	60	Connector	CDE6619
	61	Holder	CNC9435
	62	Cover	CNM7367
	63	Cushion	CNM7905
	64	Lighting Conductor	CNV6802
	65	Panel PCB Unit	CWM7806
	66	Connector(CN1801)	CKS3965
	67	Panel Unit	CXB7758
	68	Housing Unit	CXB9194
	69	Button Unit	CXB9768
	70	Chassis Frame Assy	CXC2112
	71	Transistor(Q351,752,905,909,913)	2SB1185
	72	Transistor(Q902)	2SB1299
	73	Transistor(Q912)	2SB1299
	74	Motor Unit(M901)	CXC1191
*	75	Grille Assy	CXC2126
	76	•••••	
	77	Screw	BMZ26P040FTC
	78	Screw(M2x2.5)	CBA1624
	79	Spring(Black)	CBH2482
	80	Spring(Silver)	CBH2481
	81	Chassis	CNA2414
	82	Case	CNB2758
	83	Bracket	CNC9443
	84	Bracket	See Contrast table(2)
	85	Holder	See Contrast table(2)
	86	Sheet	CNM5981
	87	Sheet	CNM7731
	88	Flexible PCB	CNP7328
	89	Damper	CNV6608
	90	Control Unit(G2F)	CWX2589
	91	Connector(CN601)	CKS1956
	92	Connector(CN101)	CKS4512
	93	Service Mechanism Unit(G2AVX)	CXX1657
	94	Stick Finger	DNB1092
	95	Screw	IMS26P050FTC
	96	Label	CRW1462
	97	Insulator	See Contrast table(2)

(2) CONTRAST TABLE

AVX-MG2237ZF and AVX-MG2337ZF are constructed the same except for the following:

Mark	NO	Symbol and Description	AVX-MG2237ZF	AVX-MG2337ZF
	10	Tuner Audio Unit	CWM9104	CWM9105
	84	Bracket	CNC9453	CNC9601
	85	Holder	CNC9438	CNC9612
	97	Insulator	CNM8126	Not used

2.4 EXTERIOR(2)(AVX-MG2037ZF,AVX-MG2137ZF)



(1)EXTERIOR(2)(AVX-MG2037ZF,AVX-MG2137ZF) SECTION PARTS LIST

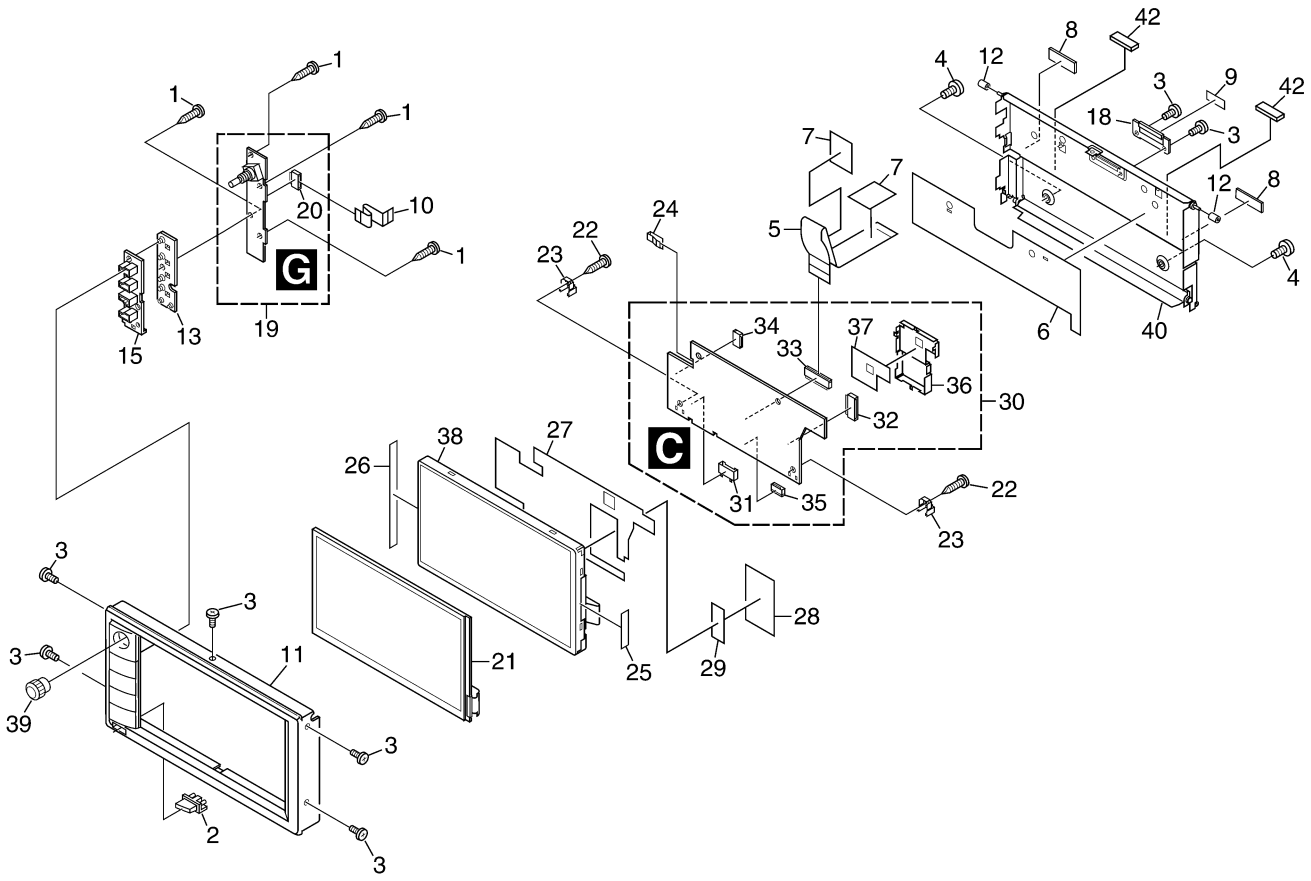
Mark	No.	Description	Part No.
	1	Screw	BPZ20P080FTC
	2	Button(OPEN/CLOSE)	See Contrast table(2)
	3	Screw(M2x1.925)	CBA1736
	4	Screw(M2.6x2.5)	CBA1737
	5	Connector	CDE6620
	6	Insulator	CNM7302
	7	Cover	CNM7720
	8	Cushion	CNM7727
	9	Sheet	CNM7886
	10	Flexible PCB	CNP6330
	11	Grille Unit	See Contrast table(2)
	12	Roller	CNV6198
	13	Rubber	CNV6749
	14	•••••	
	15	Housing	CNV6754
	16	Lighting Conductor	CNV6864
	17	Lighting Conductor	CNV6865
	18	Guide	CNV7234
	19	Keyboard Unit	CWM7802
	20	Connector(CN1851)	CKS4212
	21	Touch Panel	CWX2710
	22	Screw	BPZ20P050FTC
	23	Holder	CNC9456
	24	Earth	CND1003
	25	Sheet	CNM7473
	26	Sheet	CNM7648
	27	Insulator	CNM7862
	28	Insulator	CNM7863
*	29	Double Faced Tape	CNM7991
	30	Module Unit	CWM9123
	31	Connector(CN4161)	CKS3192
	32	Connector(CN4301)	CKS3991
	33	Connector(CN4001)	CKS4132
	34	Connector(CN4201)	CKS4212
	35	Connector(CN4202)	CKS4510
	36	Shield	CNC9457
	37	Insulator	CNM7303
	38	LCD Module	CWX2898
	39	Knob Unit	See Contrast table(2)
	40	Case Unit	CXC2114
	41	•••••	
	42	Cushion	CNM8451

(2) CONTRAST TABLE

AVX-MG2037ZF and AVX-MG2137ZF are constructed the same except for the following:

Mark	NO	Symbol and Description	AVX-MG2037ZF	AVX-MG2137ZF
	2	Button(OPEN/CLOSE)	CAC7032	CAC7037
	11	Grille Unit	CXC3156	CXC3157
	39	Knob Unit	CXC2116	CXC2117

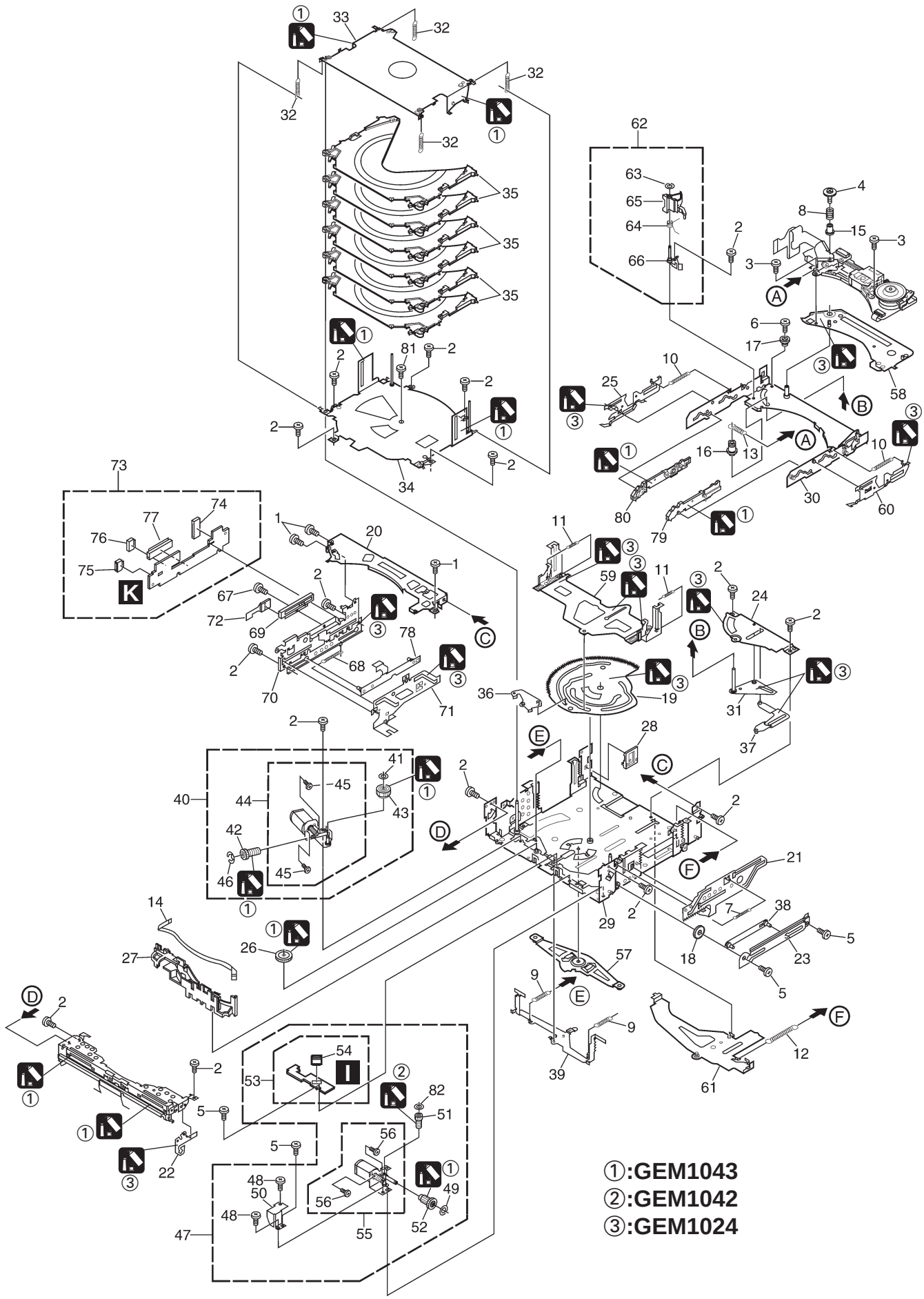
2.5 EXTERIOR(2)(AVX-MG2237ZF,AVX-MG2337ZF)



(1)EXTERIOR(2)(AVX-MG2237ZF,AVX-MG2337ZF) SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	Screw	BPZ20P080FTC
	2	Button(OPEN/CLOSE)	CAC7817
	3	Screw(M2x1.925)	CBA1736
	4	Screw(M2.6x2.5)	CBA1737
	5	Connector	CDE6620
	6	Insulator	CNM7302
	7	Cover	CNM7720
	8	Cushion	CNM7727
	9	Sheet	CNM7886
	10	Flexible PCB	CNP6330
	11	Grille Unit	CXC3158
	12	Roller	CNV6198
	13	Rubber	CNV6749
	14	•••••	
	15	Housing	CNV7287
	16	•••••	
	17	•••••	
	18	Guide	CNV7234
	19	Keyboard Unit	CWM7807
	20	Connector(CN1851)	CKS4212
	21	Touch Panel	CWX2710
	22	Screw	BPZ20P050FTC
	23	Holder	CNC9456
	24	Earth	CND1003
	25	Sheet	CNM7473
	26	Sheet	CNM7648
	27	Insulator	CNM7862
	28	Insulator	CNM7863
*	29	Double Faced Tape	CNM7991
	30	Module Unit	CWM9123
	31	Connector(CN4161)	CKS3192
	32	Connector(CN4301)	CKS3991
	33	Connector(CN4001)	CKS4132
	34	Connector(CN4201)	CKS4212
	35	Connector(CN4202)	CKS4510
	36	Shield	CNC9457
	37	Insulator	CNM7303
	38	LCD Module	CWX2898
	39	Knob Unit	CXC2118
	40	Case Unit	CXC2115
	41	•••••	
	42	Cushion	CNM8451

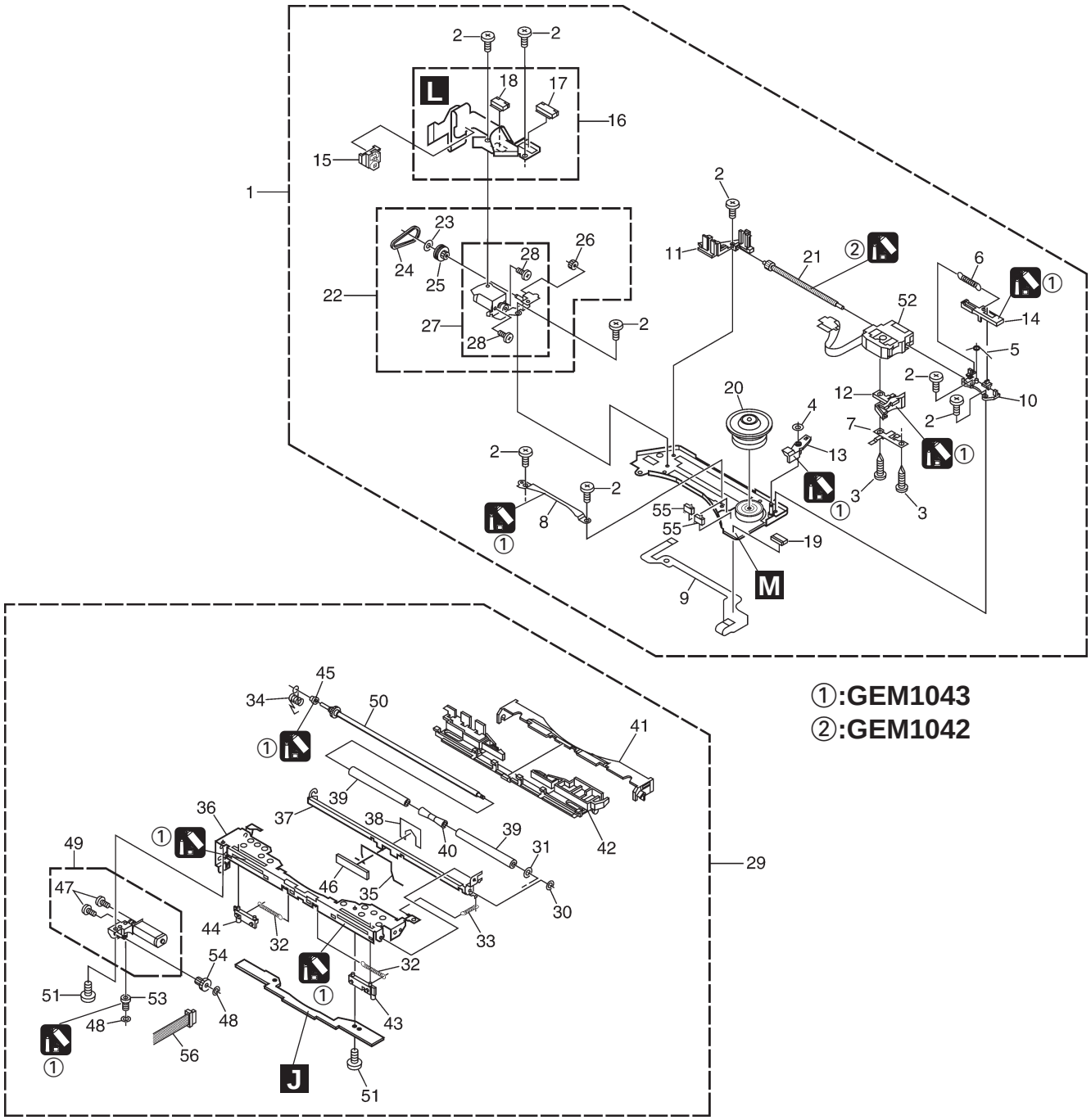
2.6 SERVICE MECHANISM UNIT(G2AVX)(1)



SERVICE MECHANISM UNIT(G2AVX)(1) SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	Screw	BMZ20P020FZB
	2	Screw	BMZ20P025FTC
	3	Screw(M2x2)	CBA1556
	4	Screw(M2x2.5)	CBA1626
	5	Screw(M2x2.5)	CBA1609
	6	Screw(M2x4.5)	CBA1629
	7	Spring	CBH2460
	8	Spring	CBH2461
	9	Spring	CBH2484
	10	Spring	CBH2694
	11	Spring	CBH2486
	12	Spring	CBH2668
	13	Spring	CBH2500
	14	Connector	CDE6698
	15	Collar	CLA4329
	16	Collar	CLA4330
	17	Collar	CLA4331
	18	Gear	CND1649
*	19	Cam Gear	CND1650
	20	Frame	CND1651
	21	Steer	CND1655
	22	Arm	CND1657
	23	Bracket	CND1658
*	24	Bracket	CND1660
*	25	Lever	CNC9953
	26	Gear	CNV6612
	27	Holder	CNV6740
	28	Holder	CNV6738
*	29	Chassis Unit	CXC1642
*	30	Frame Unit	CXC1643
*	31	Arm Unit	CXC1647
	32	Spring	CBH2670
	33	Holder Unit	CXC1669
	34	Holder Unit	CXC1668
	35	Tray Unit	CXB6930
	36	Lever Unit	CXC1648
*	37	Lever Unit	CXC1649
	38	Lever Unit	CXC1650
*	39	Lever Unit	CXC1651
	40	Cam Motor Assy	CXB7522
	41	Washer	CBF1064
	42	Gear	CNV6610
	43	Gear	CNV6611
	44	Motor Unit(-A)(M1)	CXC1144
	45	Screw	JFZ20P020FTC
	46	Washer	YE20FUC
	47	ELV Motor Assy	CXB7523
	48	Screw	BMZ20P025FTC
	49	Washer	CBF1064
	50	Holder	CND1668
	51	Gear	CNV6634
	52	Gear	CNV6635
	53	PCB Unit(LED)	CWX2614
*	54	Connector(CN31)	CKS4523
	55	Motor Unit(-B)(M2)	CXC1145
	56	Screw	JFZ20P020FTC
*	57	Arm Unit	CXC1653
	58	Bracket Unit	CXC1654
*	59	Lever Unit	CXC2159
*	60	Lever Unit	CXC1659
*	61	Lever Unit	CXC1660
	62	Arm Assy	CXB8822
	63	Washer	CBF1038
	64	Spring	CBH2489
	65	Arm	CNV6735
	66	Bracket Unit	CXC1652
	67	Screw	BMZ20P025FTC
	68	Spring	CBH2667
	69	Volume(VR1)	CCW1023
	70	Bracket	CND1652
	71	Steer	CND1656
	72	Flexible PCB	CNP6368
	73	PCB Unit(SIDE)	CWX2613
	74	Connector(CN12)	CKS3991
*	75	Connector(CN14)	CKS4404
	76	Connector(CN13)	CKS4525
	77	Connector(CN11)	CKS4572
	78	Lever Unit	CXC1645
*	79	Lever Unit	CXB9121
*	80	Lever Unit	CXB9122
	81	Screw	JFZ20P020FTC
	82	Washer	CBF1037

2.7 SERVICE MECHANISM UNIT(G2AVX)(2)

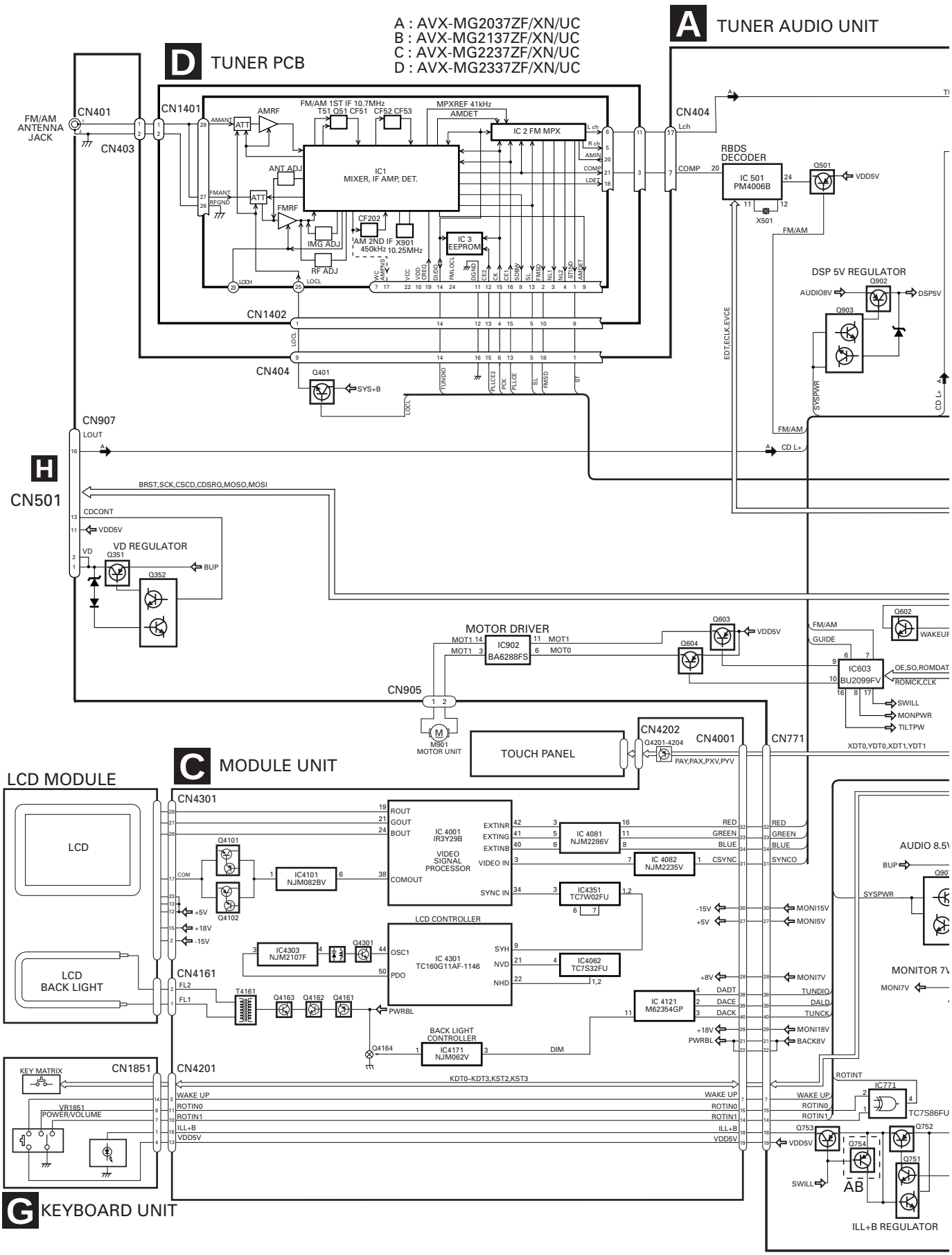


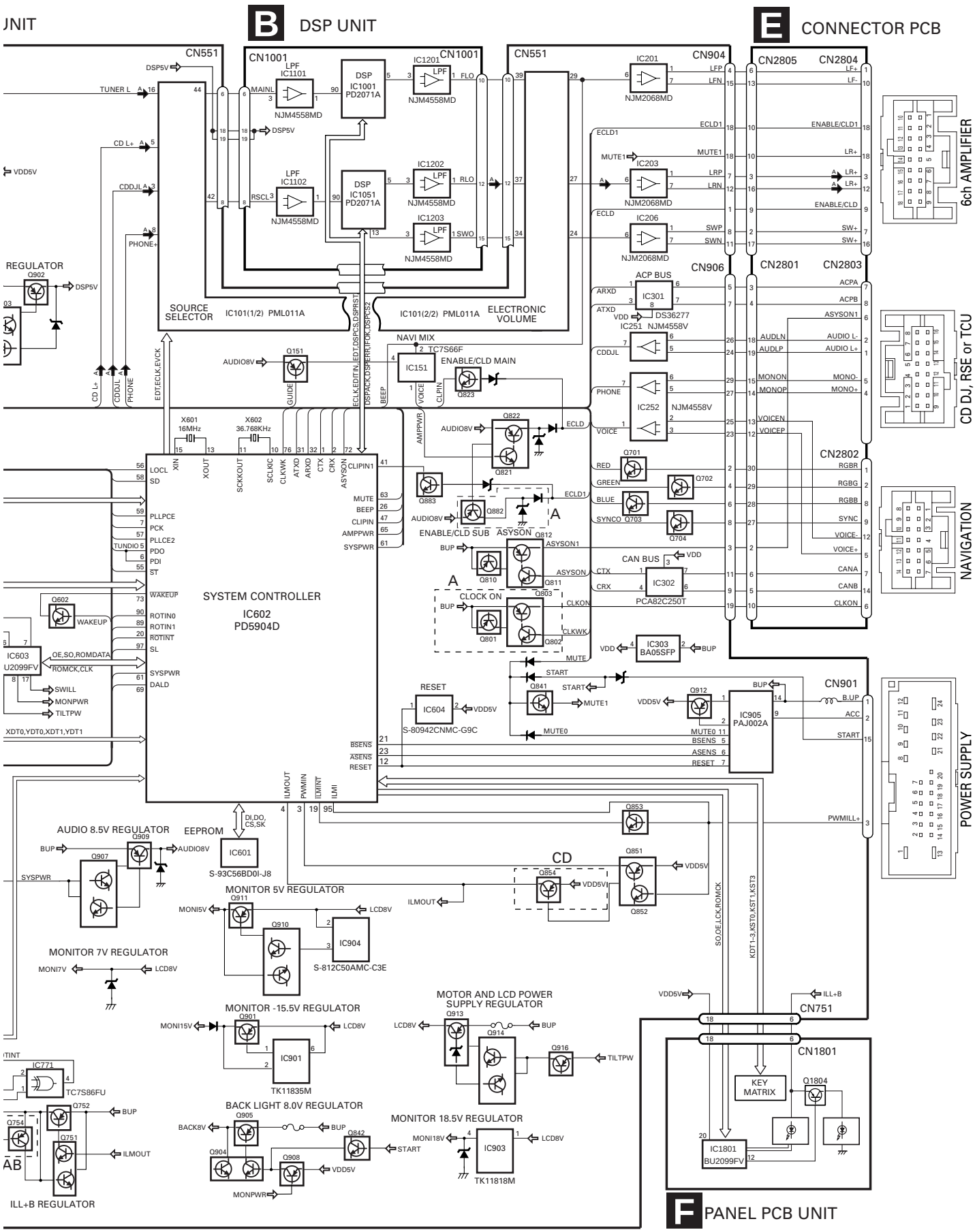
SERVICE MECHANISM UNIT(G2AVX)(2) SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	Carriage Mech. Assy(G2)	CXB7520
	2	Screw(M2x2)	CBA1556
	3	Screw(M2x6)	CBA1628
	4	Washer	CBF1038
	5	Spring	CBH2453
	6	Spring	CBH2480
	7	Spring	CBL1521
*	8	Guide	CNC9402
	9	Flexible PCB	CNP6217
	10	Holder	CNV6624
	11	Holder	CNV6625
	12	Rack	CNV6642
	13	Arm	CNV6731
	14	Lever	CNV6736
	15	Holder	CNV6737
	16	PCB Unit	CWX2611
	17	Connector(CN41)	CKS3785
	18	Connector(CN42)	CKS4508
	19	Connector(CN1)	CKS4508
	20	Support Wheel Unit	CXC1657
	21	Screw Unit(-A)	CXB7518
	22	Carriage Motor Assy	CXB7521
	23	Washer	CBF1038
	24	Belt	CNT1088
	25	Pulley	CNV6627
	26	Gear	CNV6629
	27	Motor Unit(-A)(M3)	CXC1143
	28	Screw	JFZ14P020FTC
	29	Loading Mech. Assy	CXB7525
	30	Washer	CBF1037
*	31	Washer	CBF1075
*	32	Spring	CBH2450
	33	Spring	CBH2672
*	34	Spring	CBH2457
*	35	Spring	CBH2580
*	36	Frame	CND1653
*	37	Arm	CND1654
*	38	Sheet	CNM7295
	39	Roller	CNV6616
	40	Collar	CNV6617
*	41	Guide	CNV6622
*	42	Holder	CNV6636
*	43	Lever	CNV6732
*	44	Lever	CNV6733
	45	Collar	CNV6734
*	46	Holder	CNV7144
	47	Screw	JFZ12P018FTC
	48	Washer	CBF1037
*	49	Motor Unit(-C)	CXC1146
	50	Shaft Unit(-B)	CXB7528
	51	Screw	JFZ20P020FTC
	52	PU Unit(PX1)(Service)	CXX1568
*	53	Gear	CNV6620
*	54	Gear	CNV6621
	55	Switch(S1,2)	CSN1057
*	56	Connector	CDE6674

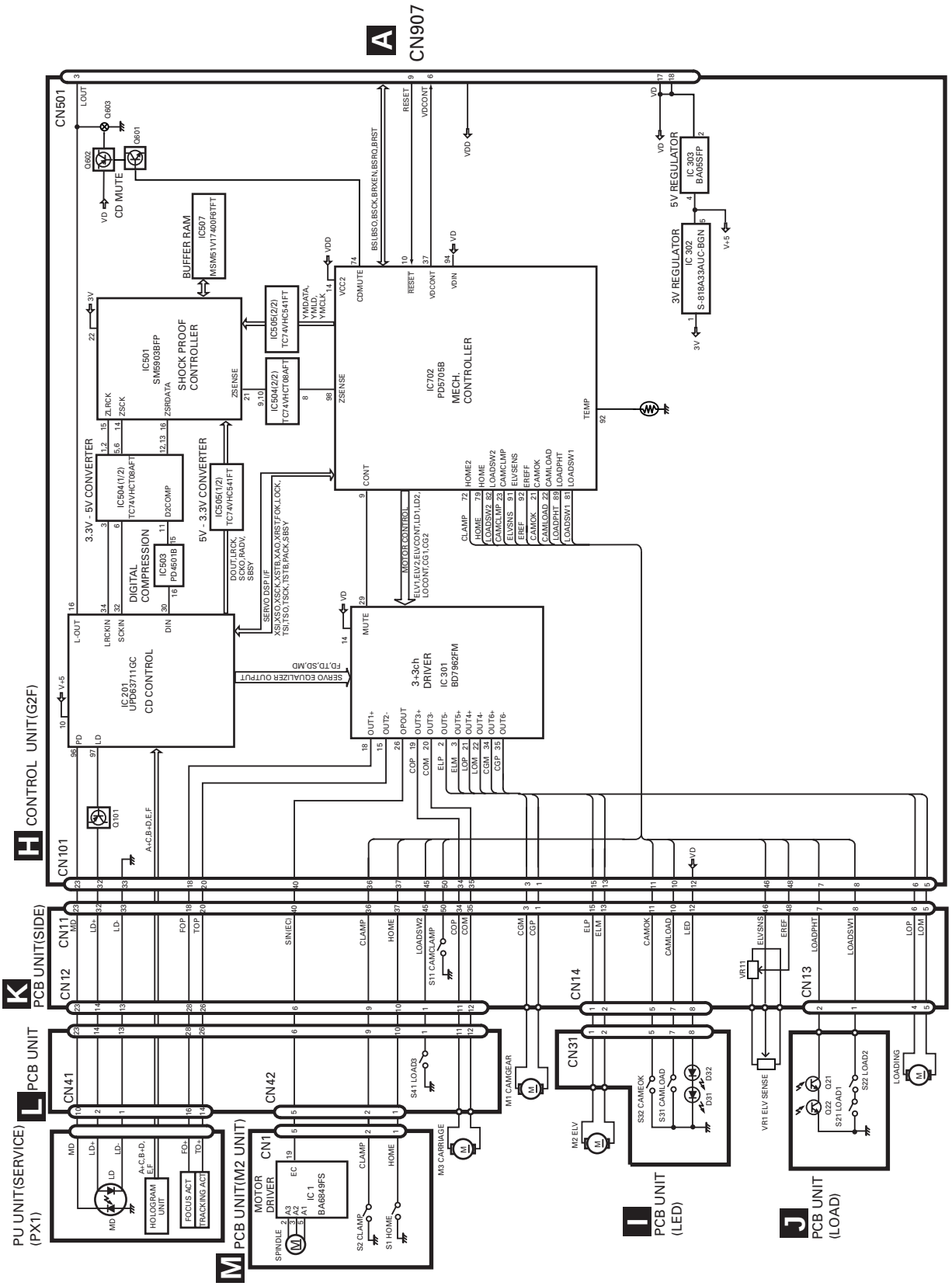
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM(1)




UNIT
B DSP UNIT
E CONNECTOR PCB
CN551
CN1001
IC1001 PD2071A
IC1101 IC1102
IC1201 IC1202 IC1203
NJM4558MD
CN904
CN906
IC201 IC203 IC206
NJM2068MD
CN2805 CN2804
CN2801 CN2803
CN2802
6ch AMPLIFIER
CD DJ, RSE or TCU
NAVIGATION
POWER SUPPLY
REGULATOR
Q902
SOURCE SELECTOR IC101(1/2) PML011A
IC101(2/2) PML011A ELECTRONIC VOLUME
NAVI MIX
IC151 TC7S66F
ENABLE/CLD MAIN
ENABLE/CLD SUB
ACP BUS
IC301 DS36277
IC251 NJM4558V
IC252 NJM4558V
CAN BUS
IC302 PCA82C250T
X601 16MHz
X602 36.768KHz
SYSTEM CONTROLLER
IC602
PD5904D
IC603 U2099FV
CLOCK ON
RESET
IC604 S-80942CNMC-G9C
IC905 PAJ002A
AUDIO 8.5V REGULATOR
EEPROM
IC601 S-93C56BD0I-J8
MONITOR 5V REGULATOR
IC904 S-812C50AMC-C3E
MONITOR 7V REGULATOR
MONITOR -15.5V REGULATOR
IC901 TK11835M
BACK LIGHT 8.0V REGULATOR
MONITOR 18.5V REGULATOR
IC903 TK11818M
MOTOR AND LCD POWER SUPPLY REGULATOR
CD
IC771 TC7S86FU
ILL+B REGULATOR
CN751
CN1801
KEY MATRIX
IC1801 BU2099FV
F PANEL PCB UNIT

3.2 BLOCK DIAGRAM(2)



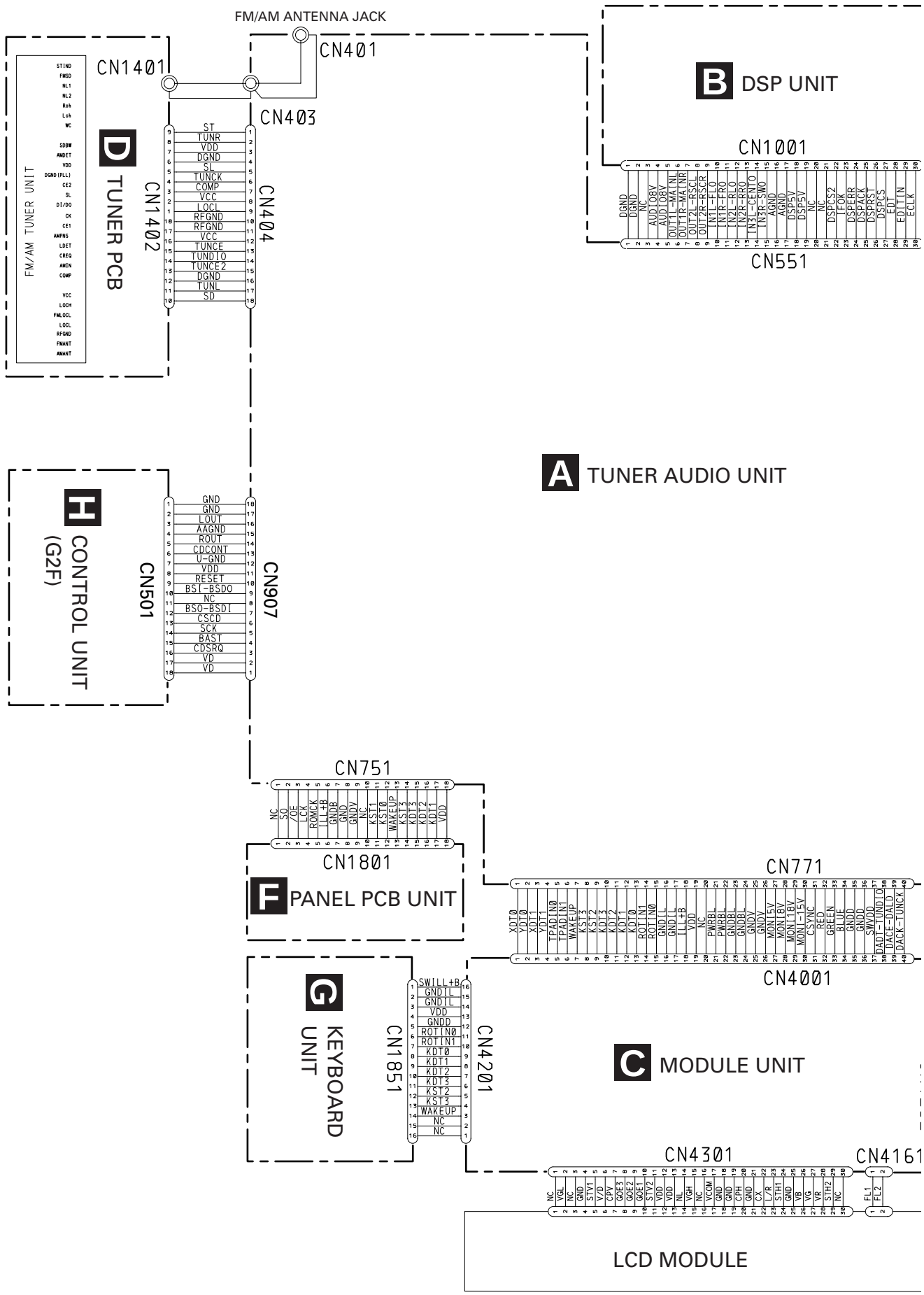
A

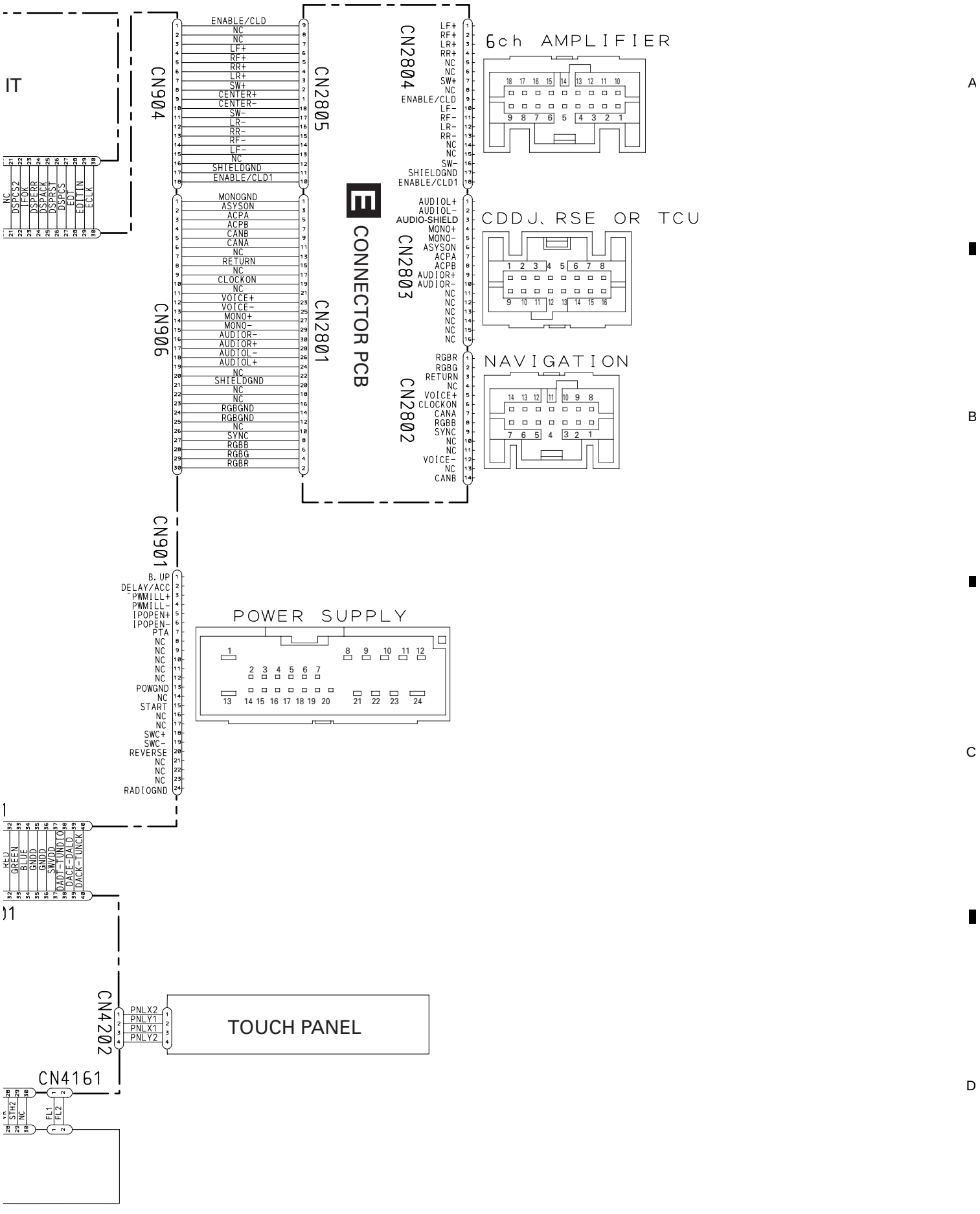
B

C

D

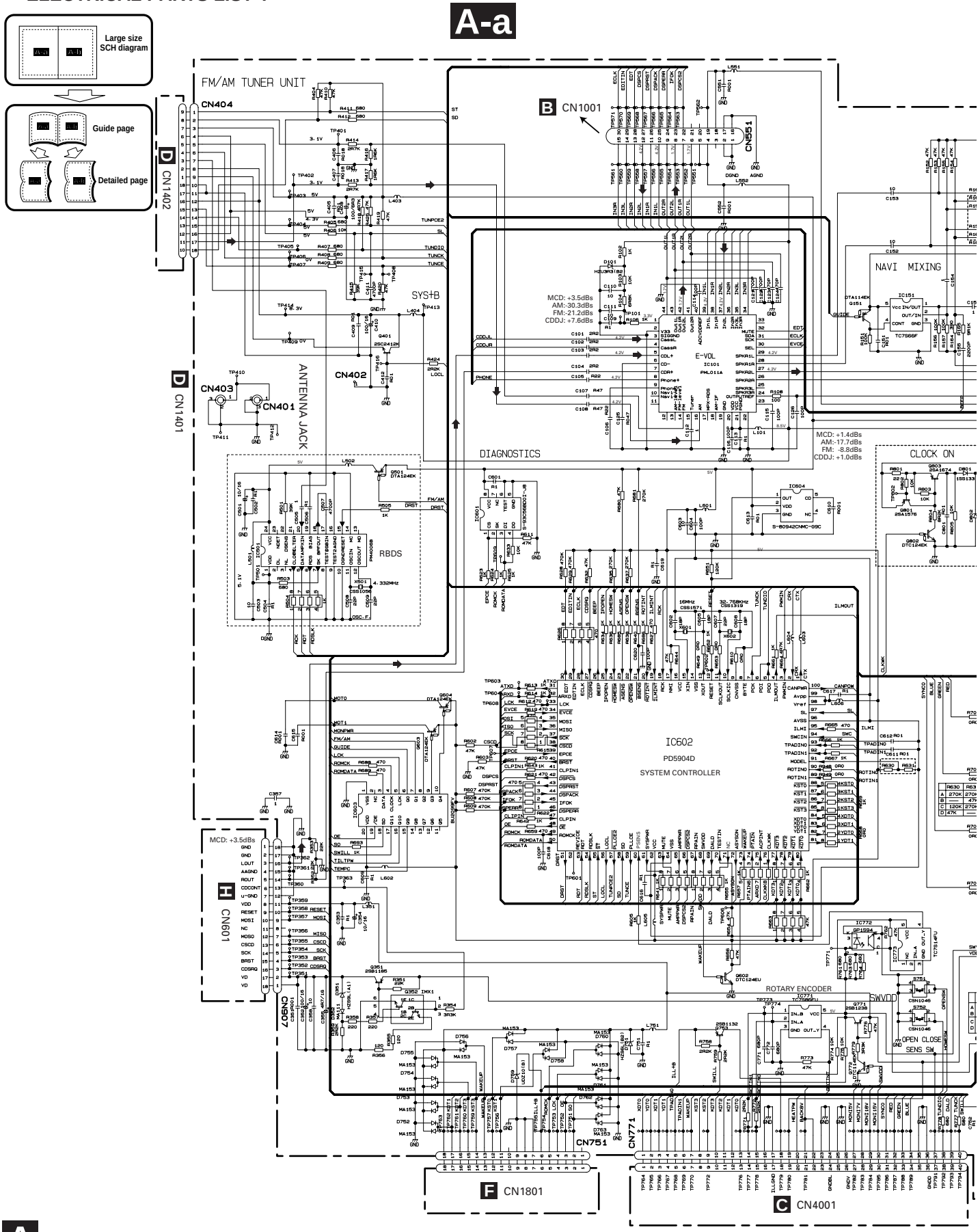
3.3 OVERALL CONNECTION DIAGRAM




IT
CN904
CN906
CN901
CN2805
CN2801
CONNECTOR PCB
ENABLE/CLD
NC
NC
LF+
RF+
RR+
LR+
SW+
CENTER+
CENTER-
SW-
LR-
RR-
RF-
LF-
NC
SHIELDGND
ENABLE/CLD1
MONOGND
ASYSON
ACPA
ACPB
CANB
CANA
NC
RETURN
NC
CLOCKON
NC
VOICE+
VOICE-
MONO+
MONO-
AUDIOR-
AUDIOR+
AUDIOL-
AUDIOL+
NC
SHIELDGND
NC
NC
RGBGND
RGBGND
NC
SYNC
RGBB
RGBG
RGBR
CN2804
6ch AMPLIFIER
LF+
RF+
LR+
RR+
NC
NC
SW+
NC
ENABLE/CLD
LF-
RF-
LR-
RR-
NC
NC
SW-
SHIELDGND
ENABLE/CLD1
CN2803
CDDJ、RSE OR TCU
AUDIOL+
AUDIOL-
AUDIO-SHIELD
MONO+
MONO-
ASYSON
ACPA
ACPB
AUDIOR+
AUDIOR-
NC
NC
NC
NC
NC
CN2802
NAVIGATION
RGBR
RGBG
RETURN
NC
VOICE+
CLOCKON
CANA
RGBB
SYNC
NC
NC
VOICE-
NC
CANB
B. UP
DELAY/ACC
PWMILL+
PWMILL-
POPEN+
POPEN-
PTA
NC
NC
NC
NC
NC
POWGND
NC
START
NC
NC
SWC+
SWC-
REVERSE
NC
NC
NC
RADIOGND
POWER SUPPLY
CN4202
PNLX2
PNLY1
PNLX1
PNLY2
TOUCH PANEL
CN4161
FL1
FL2

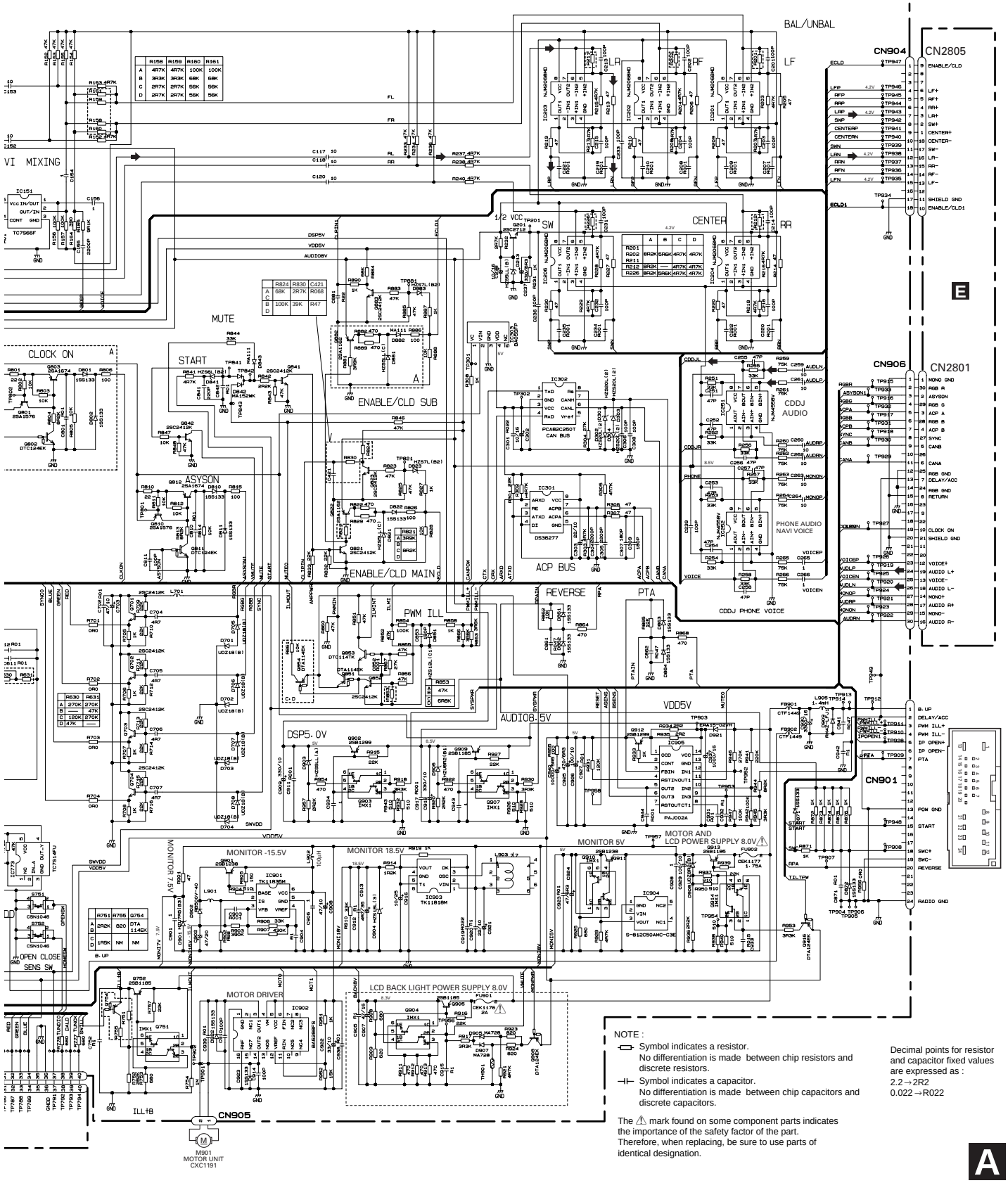
3.4 TUNER AUDIO UNIT(GUIDE PAGE)

Note: When ordering service parts, be sure to refer to " EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST".



A	AVX-MG2037ZF/XN/UC
B	AVX-MG2137ZF/XN/UC
C	AVX-MG2237ZF/XN/UC
D	AVX-MG2337ZF/XN/UC

A TUNER AUDIO UNIT

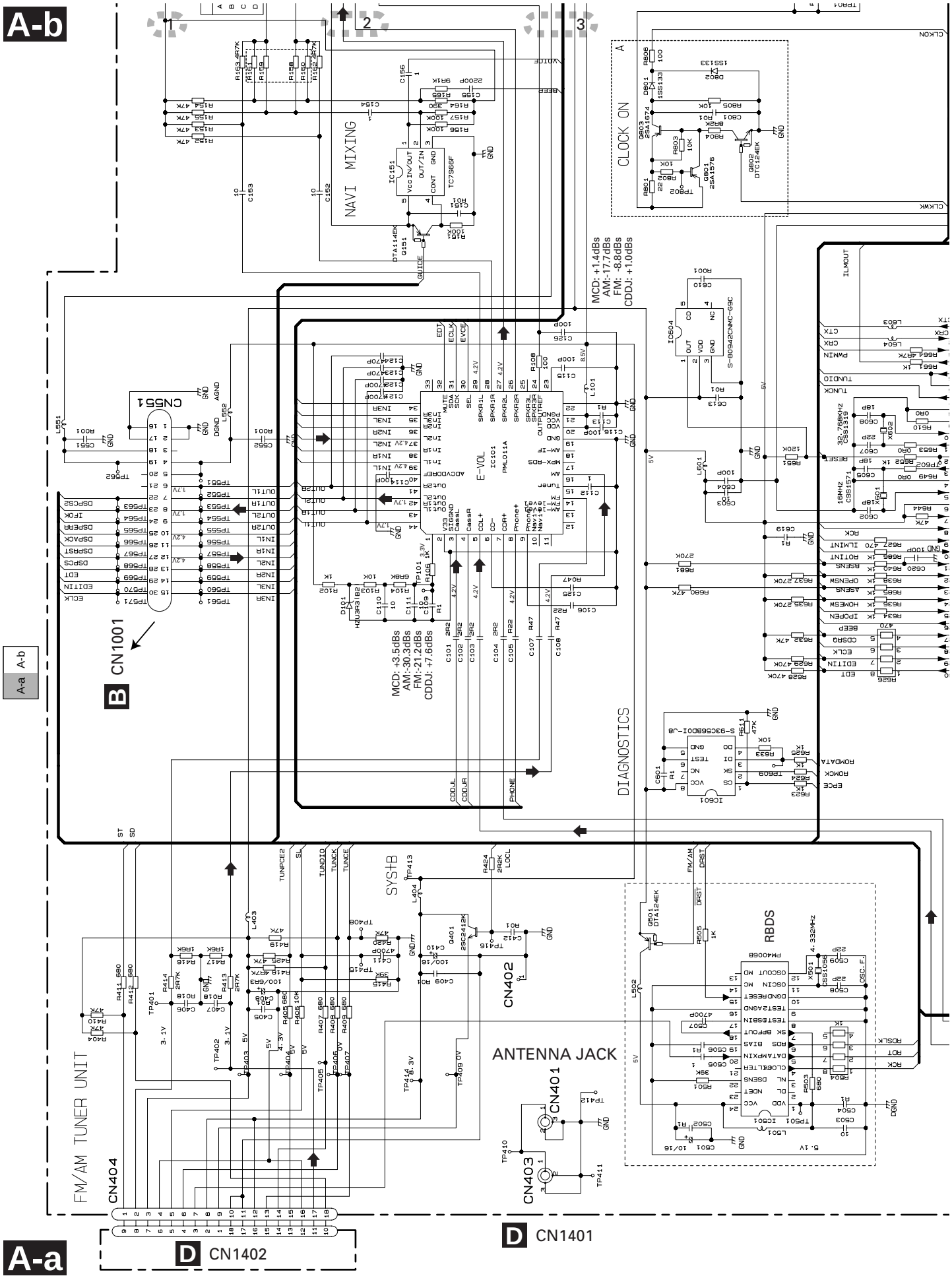


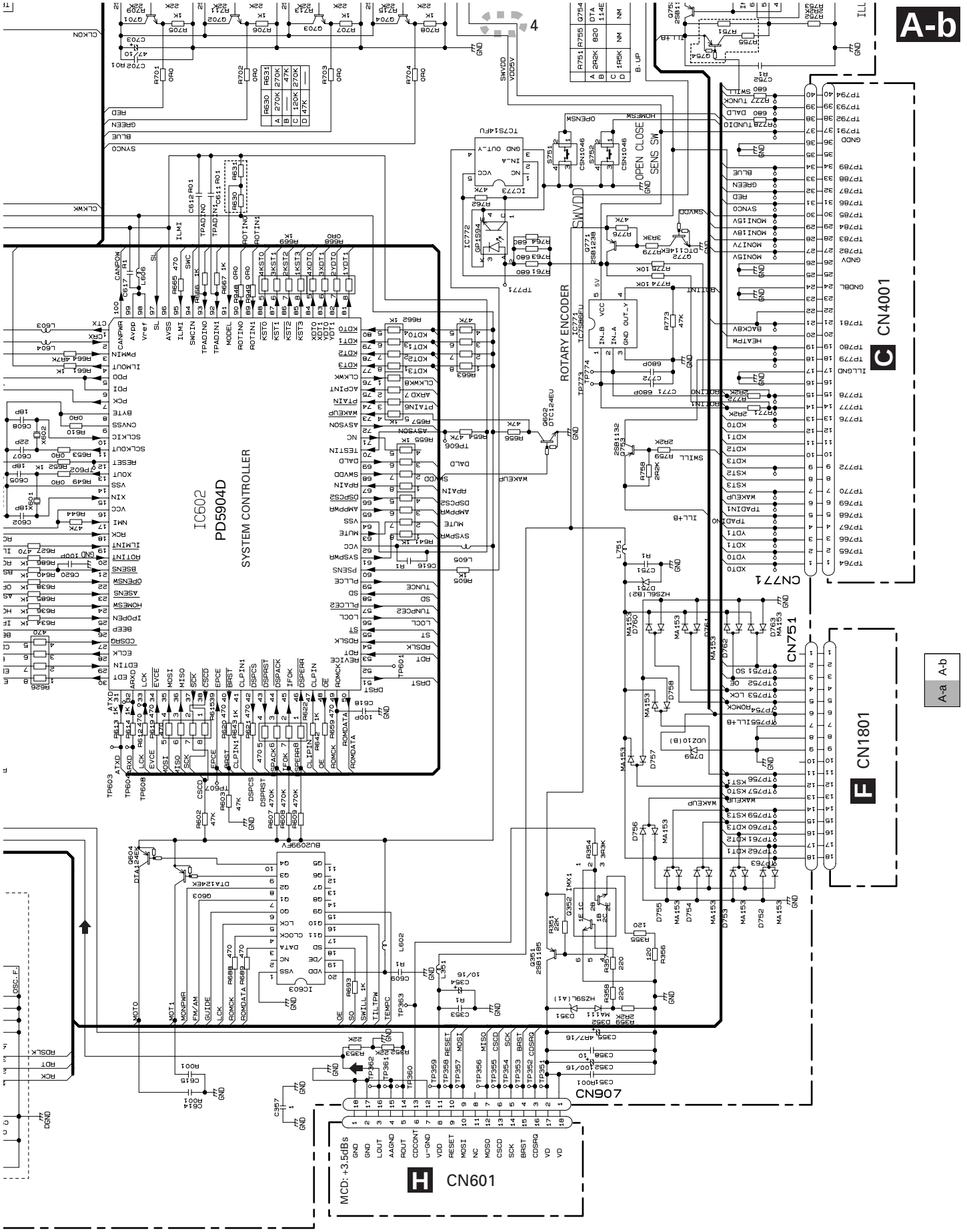
NOTE :

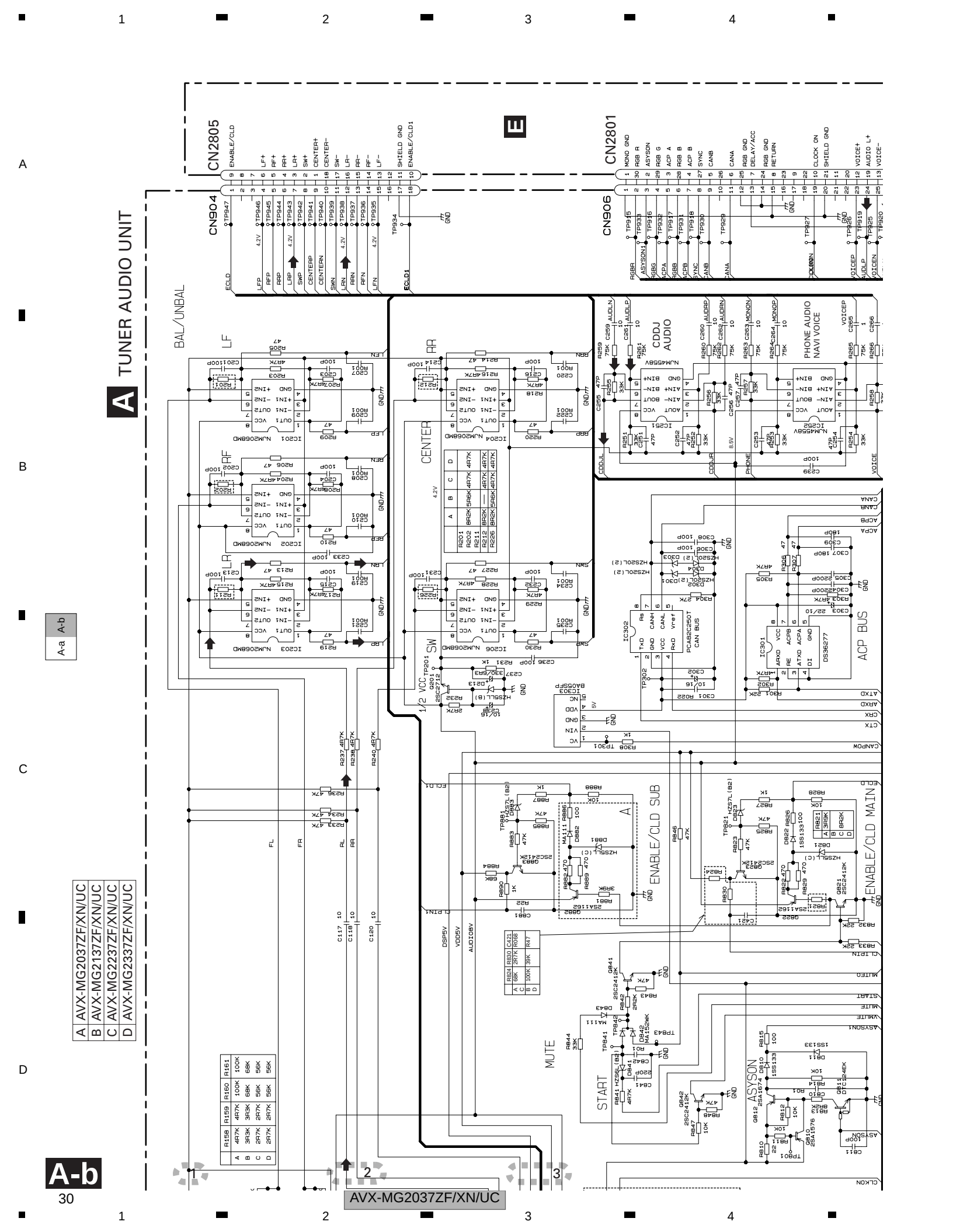
- Symbol indicates a resistor. No differentiation is made between chip resistors and discrete resistors.
- Symbol indicates a capacitor. No differentiation is made between chip capacitors and discrete capacitors.

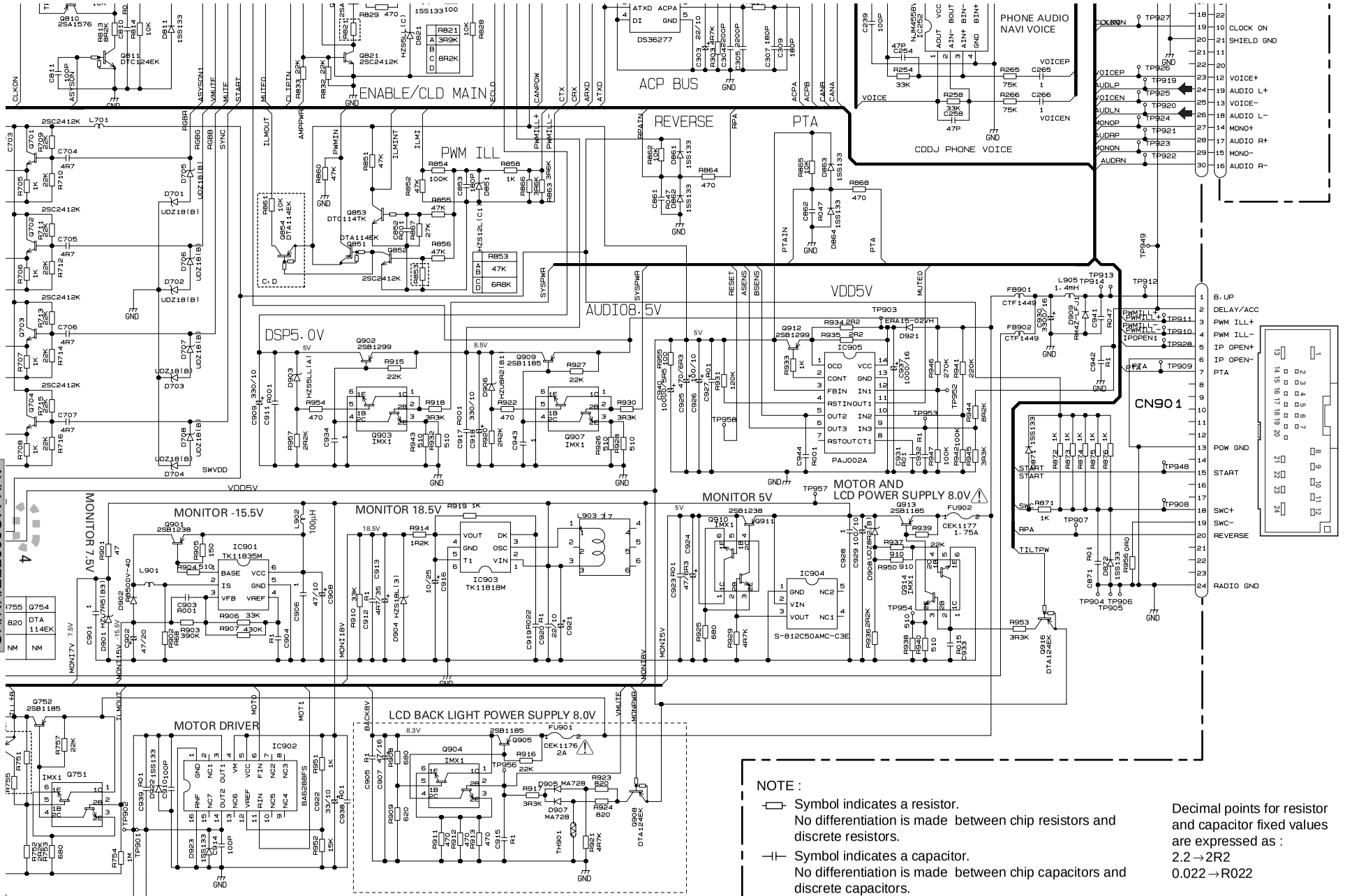
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

Decimal points for resistor and capacitor fixed values are expressed as :
2.2→2R2
0.022→R022


A-b
A-a
B CN1001
D CN1401
D CN1402
CN404
CN402
CN401
CN403
CN551
FM/AM TUNER UNIT
NAVI MIXING
CLOCK ON
DIAGNOSTICS
ANTENNA JACK
SYSHB
RBDS
E-VOL
MCD: +3.5dBs
AM:-30.3dBs
FM:-21.2dBs
CDDJ: +7.6dBs
MCD: +1.4dBs
AM:-17.7dBs
FM: -8.8dBs
CDDJ: +1.0dBs


IC602
PD5904D
SYSTEM CONTROLLER
ROTARY ENCODER
OPEN CLOSE SENS SW
C CN4001
CN771
F CN1801
CN7751
CN907
H CN601
MCD: +3.5dBs
A-b
A-a


A TUNER AUDIO UNIT
CN2805
CN2801
CN904
CN906
BAL/UNBAL
LF
RF
CENTER
RR
SW
CDDJ AUDIO
PHONE AUDIO NAVI VOICE
ACP BUS
ENABLE/CLD SUB
ENABLE/CLD MAIN
MUTE
START
ASYSON
A-a
A-b
A AVX-MG2037ZF/XN/UC
B AVX-MG2137ZF/XN/UC
C AVX-MG2237ZF/XN/UC
D AVX-MG2337ZF/XN/UC
A-b
30
AVX-MG2037ZF/XN/UC



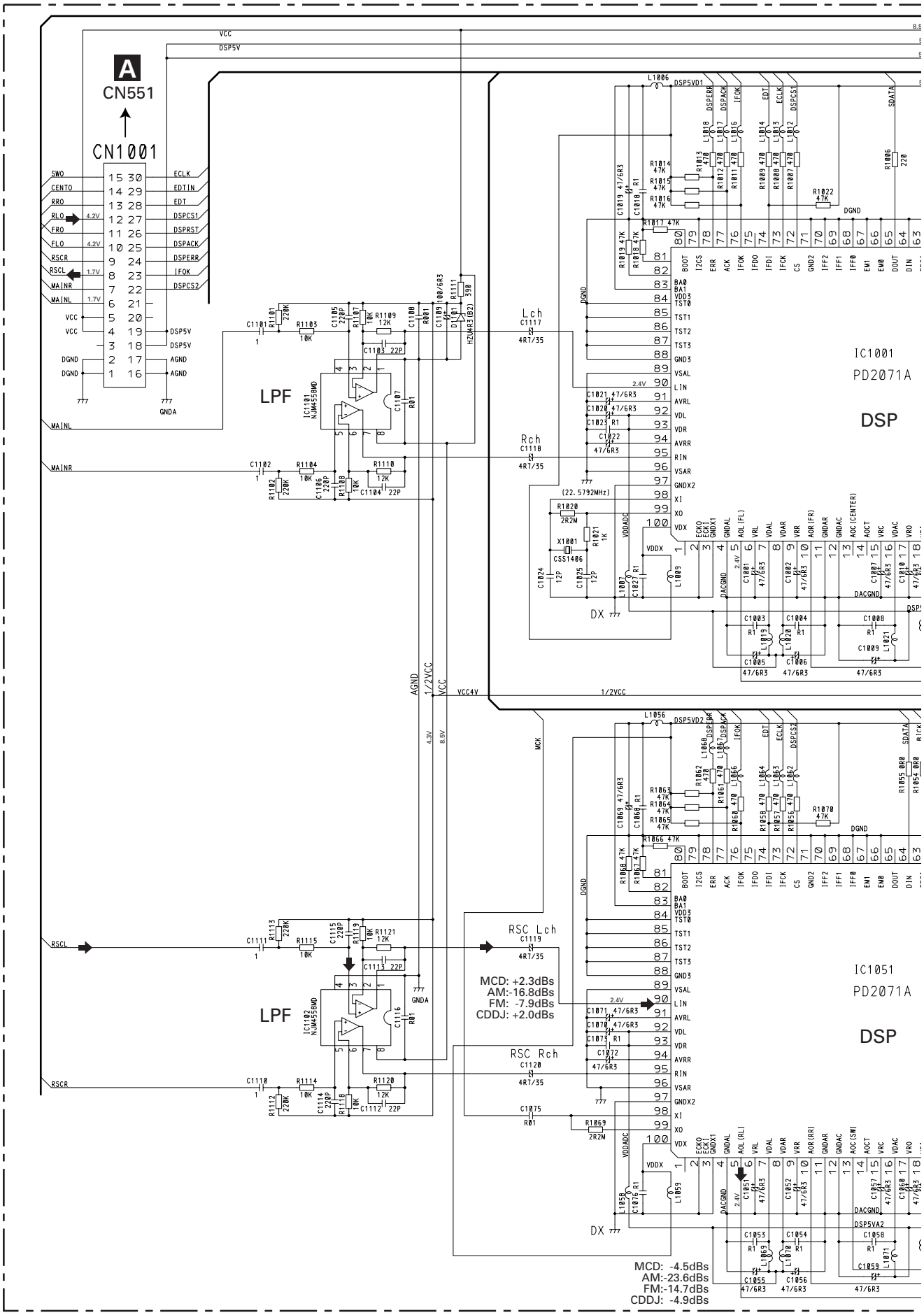
NOTE :

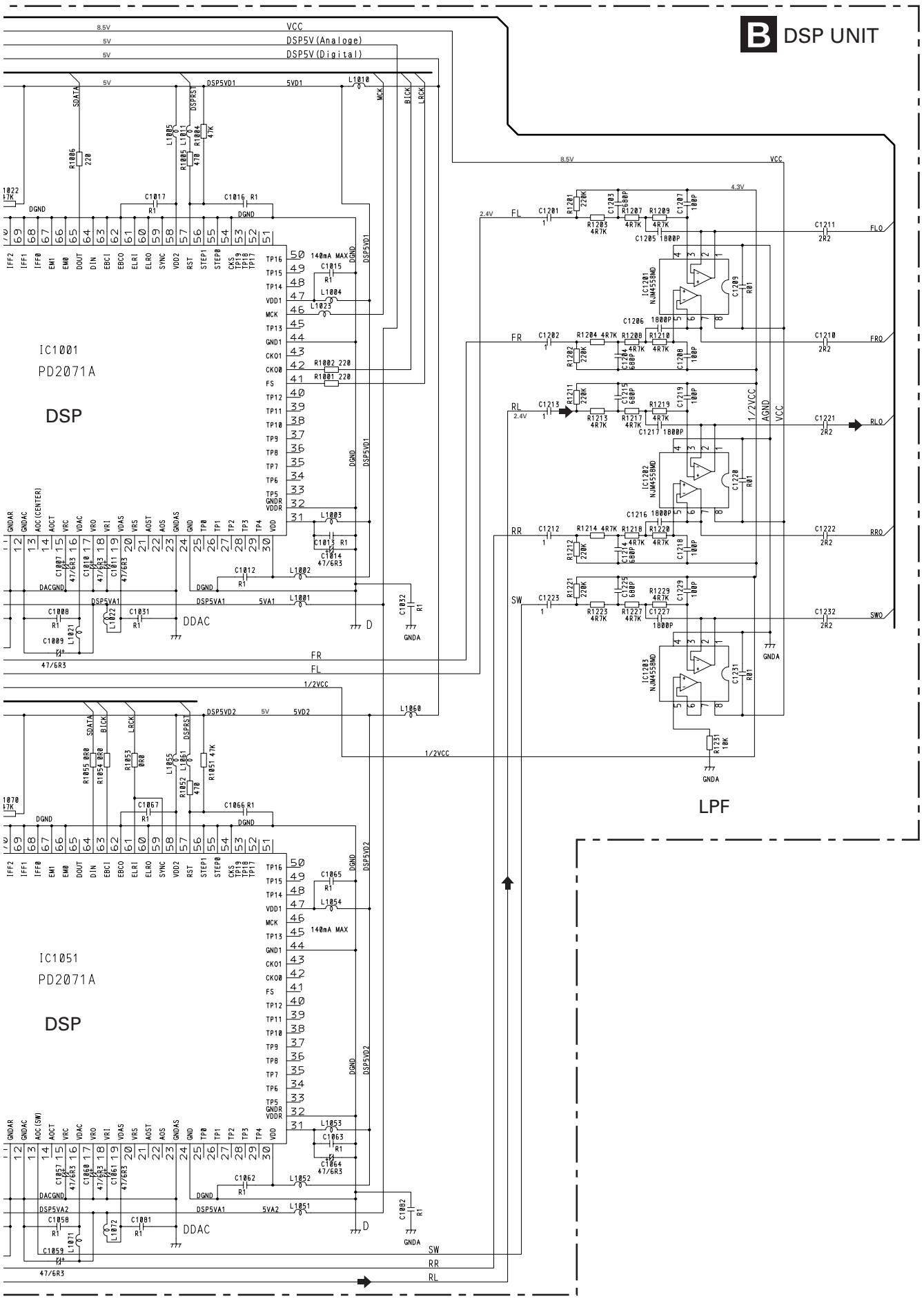
- Symbol indicates a resistor.
  No differentiation is made between chip resistors and discrete resistors.
- Symbol indicates a capacitor.
  No differentiation is made between chip capacitors and discrete capacitors.

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part.
Therefore, when replacing, be sure to use parts of identical designation.

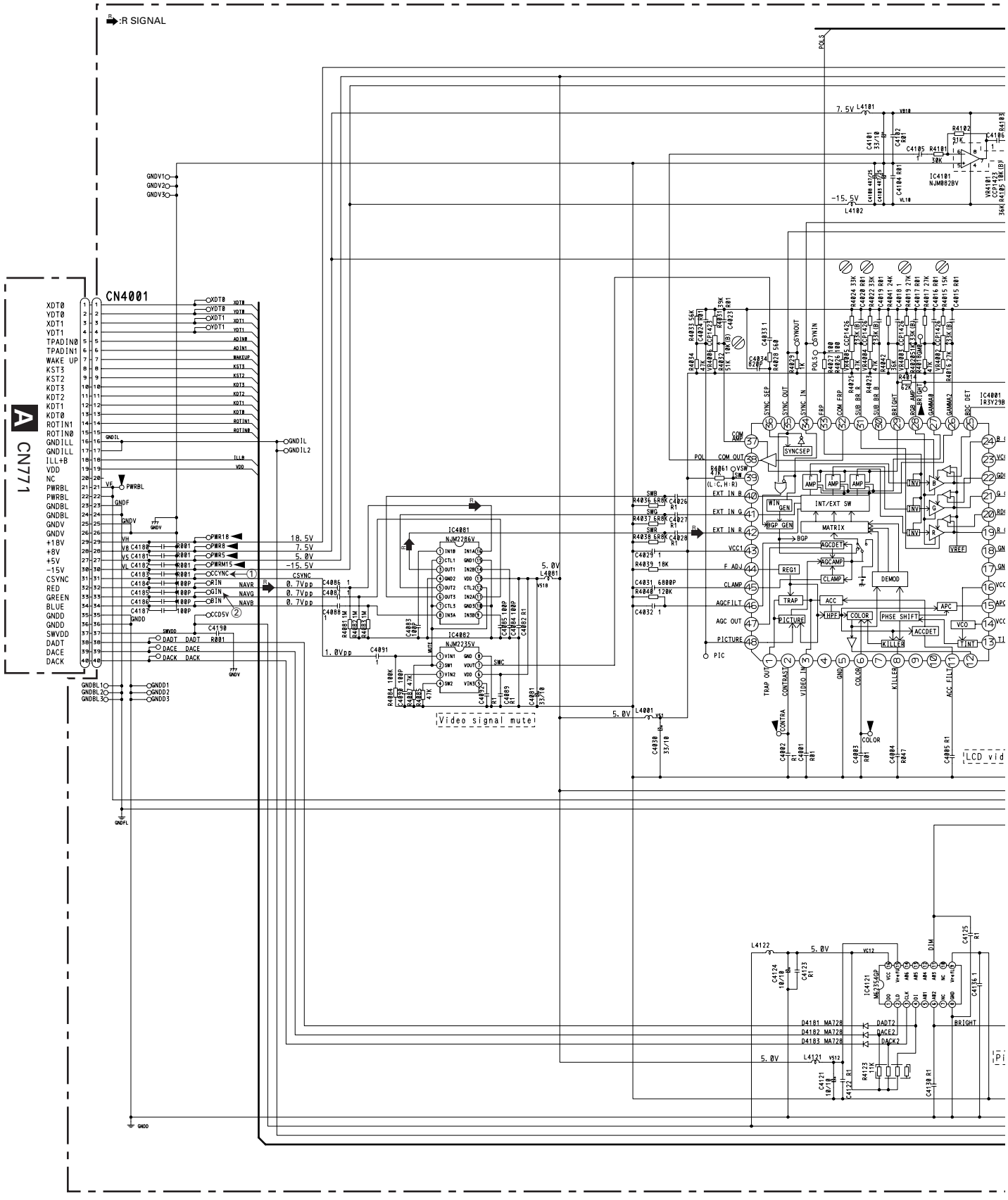
Decimal points for resistor and capacitor fixed values are expressed as :
2.2→2R2
0.022→R022

3.5 DSP UNIT

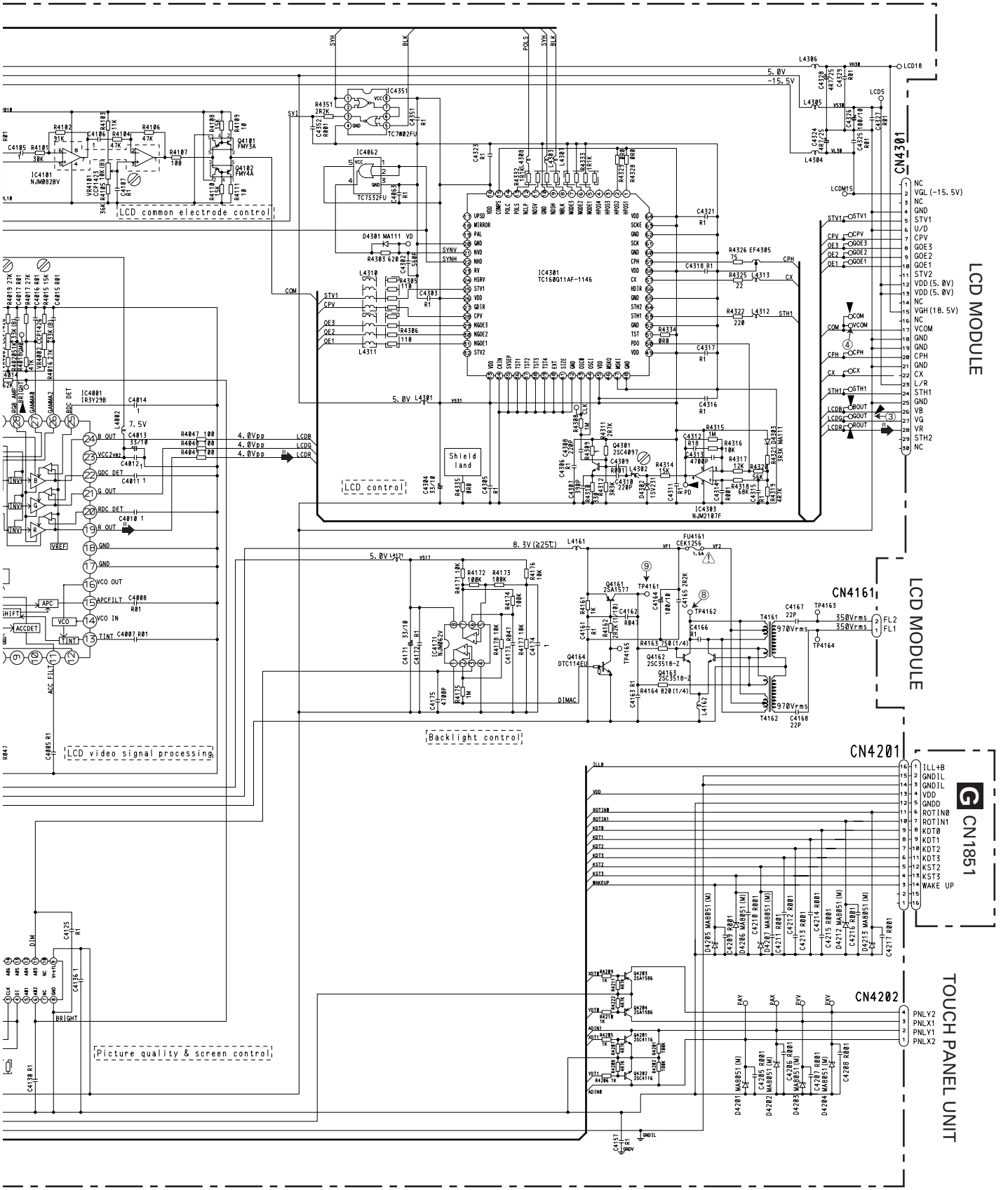

A
CN551
CN1001
LPF
IC1001
PD2071A
DSP
IC1051
PD2071A
DSP
Lch
Rch
RSC Lch
RSC Rch
MCD: +2.3dBs
AM:-16.8dBs
FM: -7.9dBs
CDDJ: +2.0dBs
MCD: -4.5dBs
AM:-23.6dBs
FM:-14.7dBs
CDDJ: -4.9dBs
(22.5792MHz)
DX
B


B DSP UNIT
VCC
DSP5V(Analoge)
DSP5V(Digital)
IC1001
PD2071A
DSP
IC1051
PD2071A
DSP
DDAC
DDAC
LPF
FL
FR
RL
RR
SW
FLO
FRO
RLO
RRO
SWO
1/2VCC
AGND
GNDA
DGND
DACGND
140mA MAX
IC1201
IC1202
IC1203
NJM4558MD

3.6 MODULE UNIT



C MODULE UNIT

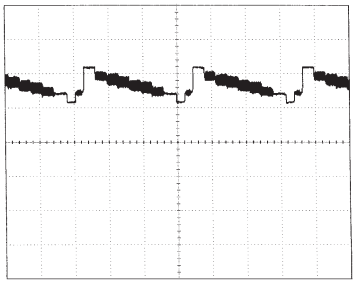


● Waveforms

Note : The encircled numbers denote measuring pointes in the circuit diagram.

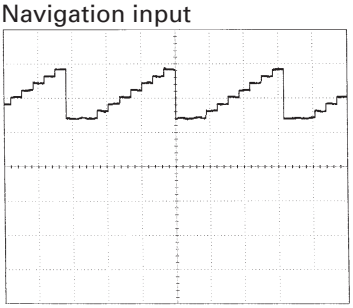
① CH1:TP CSYNC 2V/div. 20μs/div.

Composite Color Bar Signal
TV, VTR input



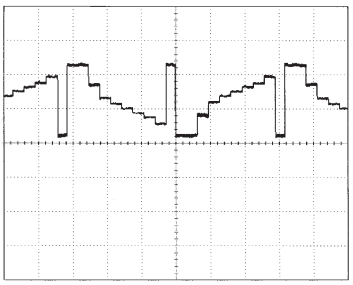
② CH1:TP GIN 500mV/div. 20μs/div.

RIN and BIN are the same as GIN.
RGB 7 Step Signal
Navigation input

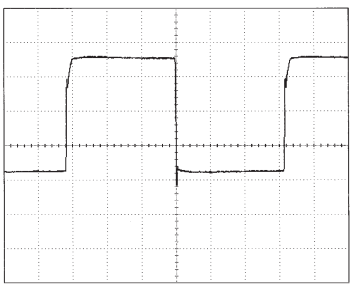


③ CH1:TP GOUT 500mV/div. 1ms/div.

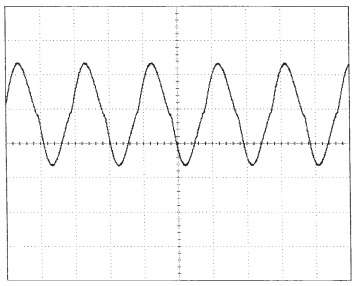
RIN and BIN are the same as GIN.
RGB 7 Step Signal



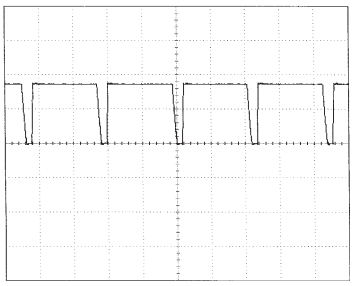
④ CH1:TP VCOM 2V/div. 20μs/div.



⑧ CH1:TP4162 10V/div. 10μs/div.



⑨ CH1:TP4161 5V/div. 5ms/div.



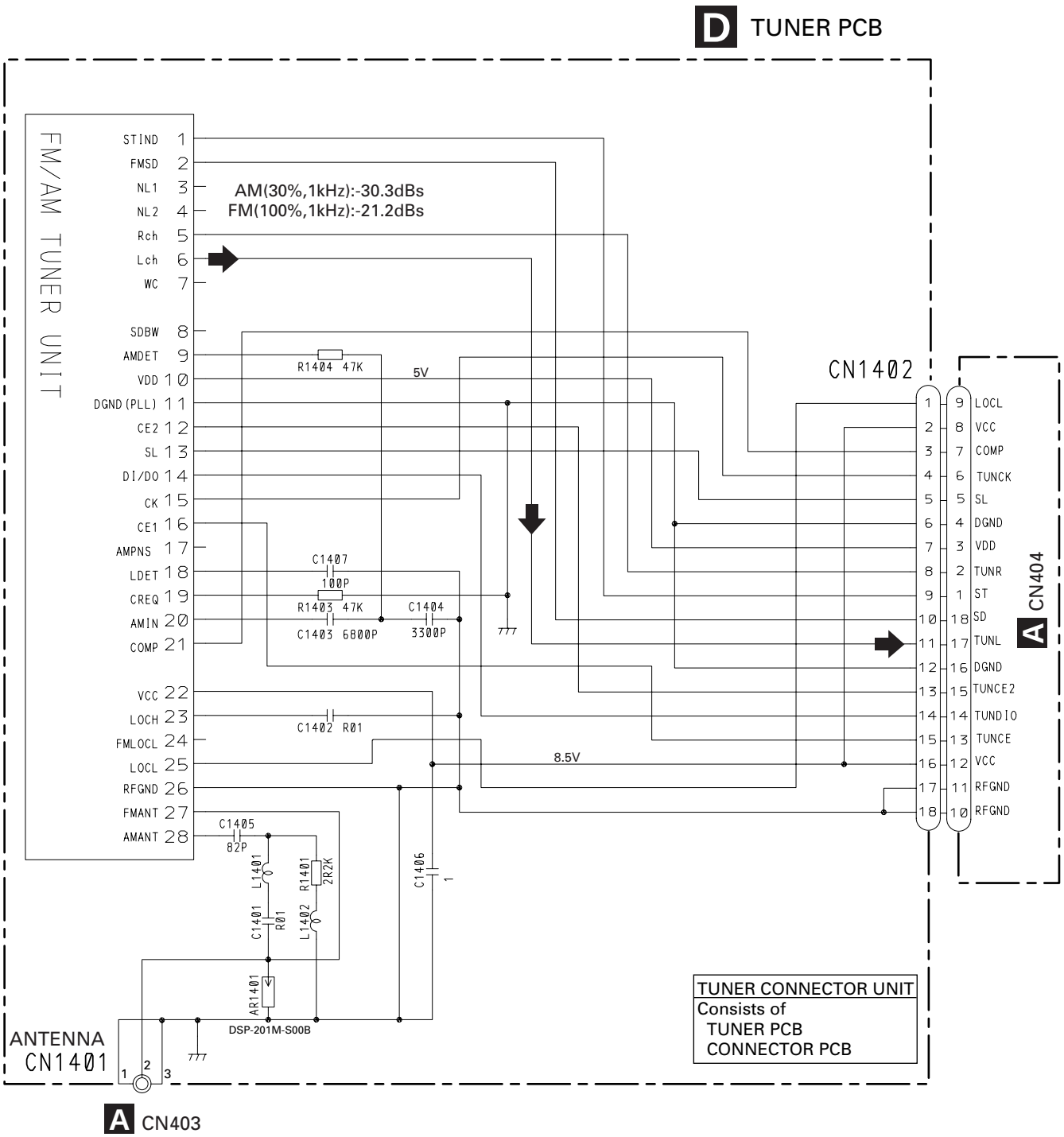
A

B

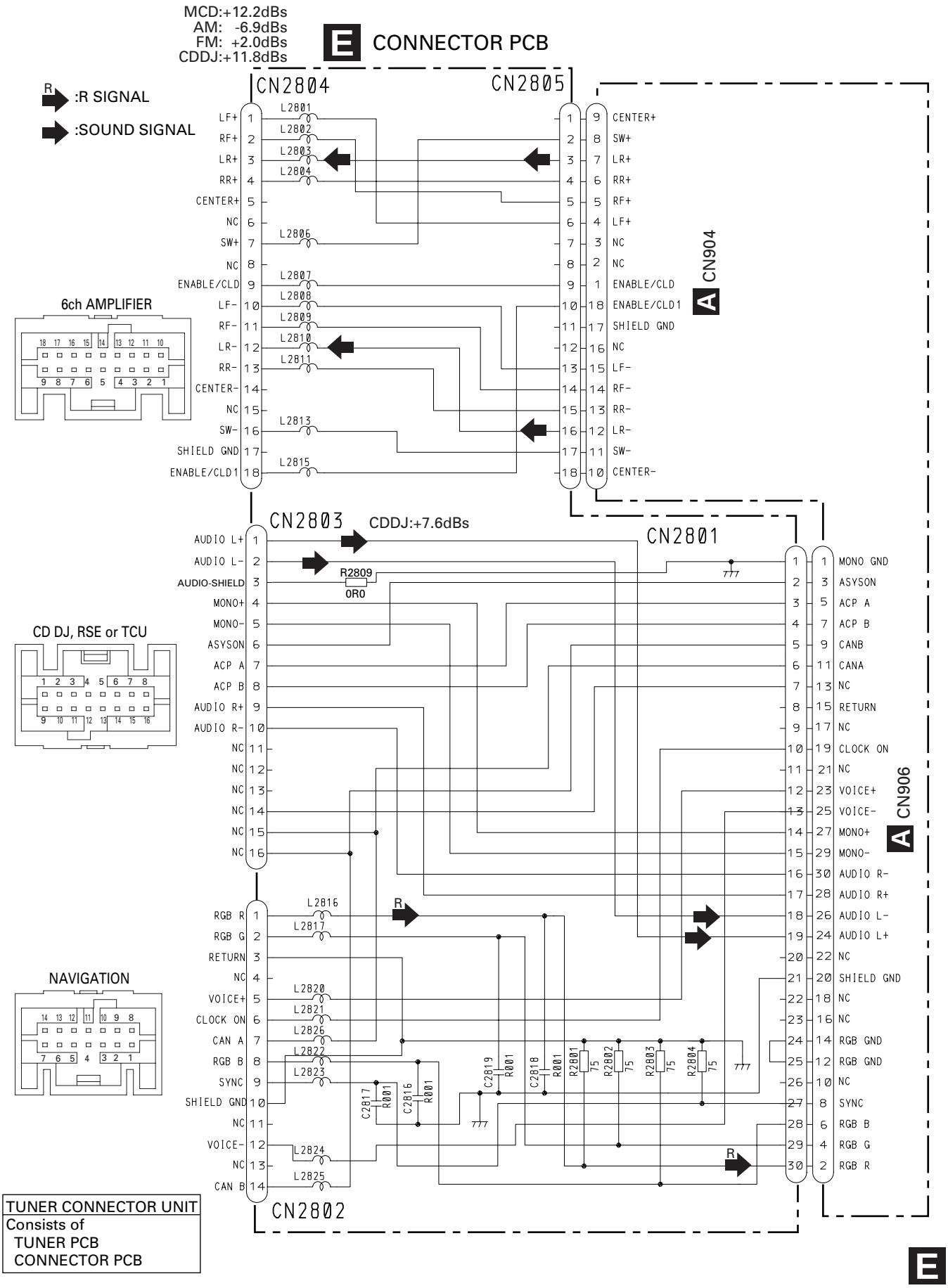
C

D

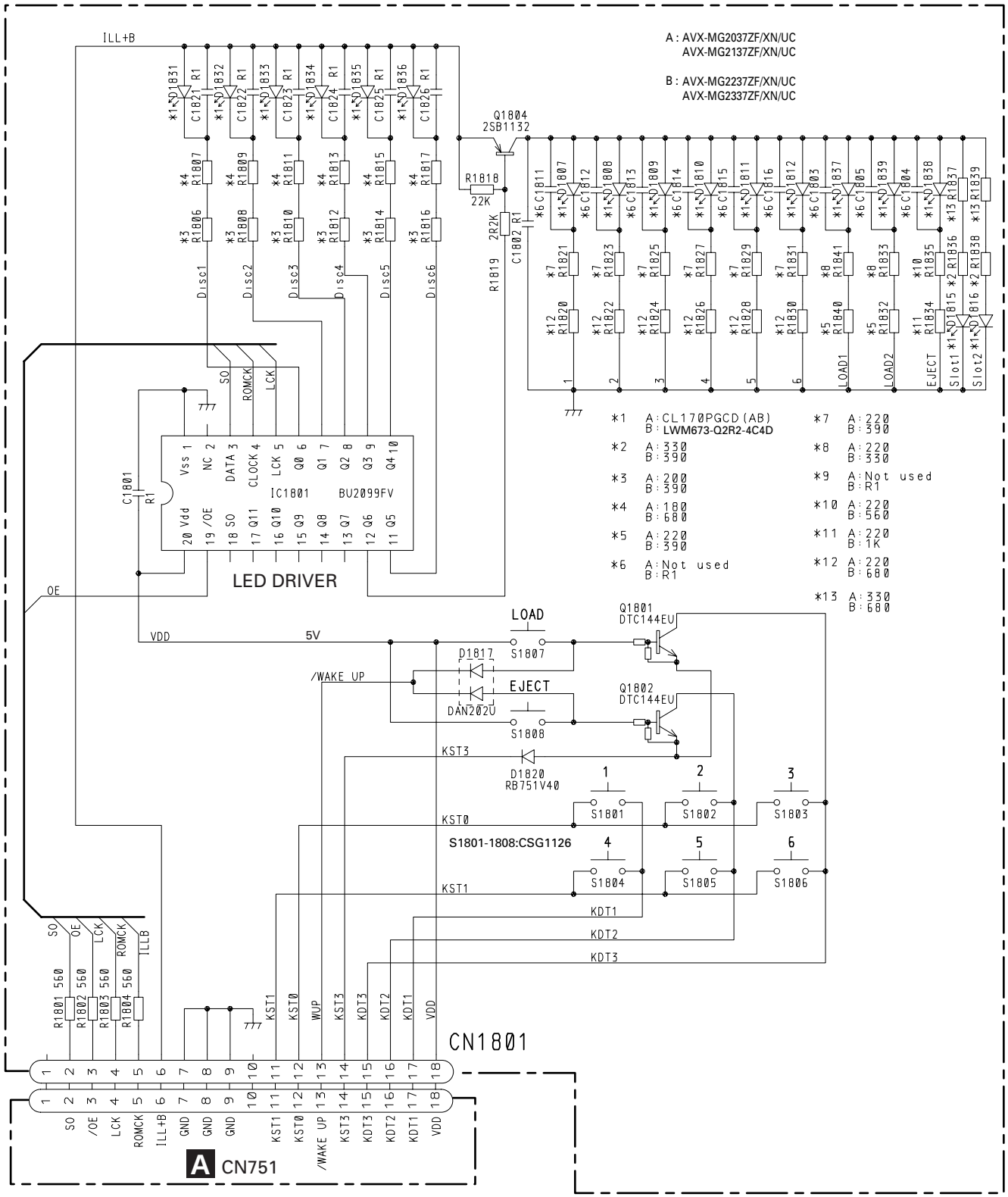
3.7 TUNER PCB


D TUNER PCB
FM/AM TUNER UNIT
STIND 1
FMSD 2
NL1 3
NL2 4
Rch 5
Lch 6
WC 7
SDBW 8
AMDET 9
VDD 10
DGND(PLL) 11
CE2 12
SL 13
DI/DO 14
CK 15
CE1 16
AMPNS 17
LDET 18
CREQ 19
AMIN 20
COMP 21
VCC 22
LOCH 23
FMLOCL 24
LOCL 25
RFGND 26
FMANT 27
AMANT 28
AM(30%,1kHz):-30.3dBs
FM(100%,1kHz):-21.2dBs
R1404 47K
5V
C1407
100P
R1403 47K
C1404
C1403 6800P
3300P
C1402 R01
8.5V
C1405
82P
L1401
0
R1401
2R2K
C1401
R01
L1402
0
C1406
1
AR1401
DSP-201M-S00B
ANTENNA
CN1401
1 2 3
A CN403
CN1402
1 9 LOCL
2 8 VCC
3 7 COMP
4 6 TUNCK
5 5 SL
6 4 DGND
7 3 VDD
8 2 TUNR
9 1 ST
10 18 SD
11 17 TUNL
12 16 DGND
13 15 TUNCE2
14 14 TUNDIO
15 13 TUNCE
16 12 VCC
17 11 RFGND
18 10 RFGND
A CN404
TUNER CONNECTOR UNIT
Consists of
TUNER PCB
CONNECTOR PCB

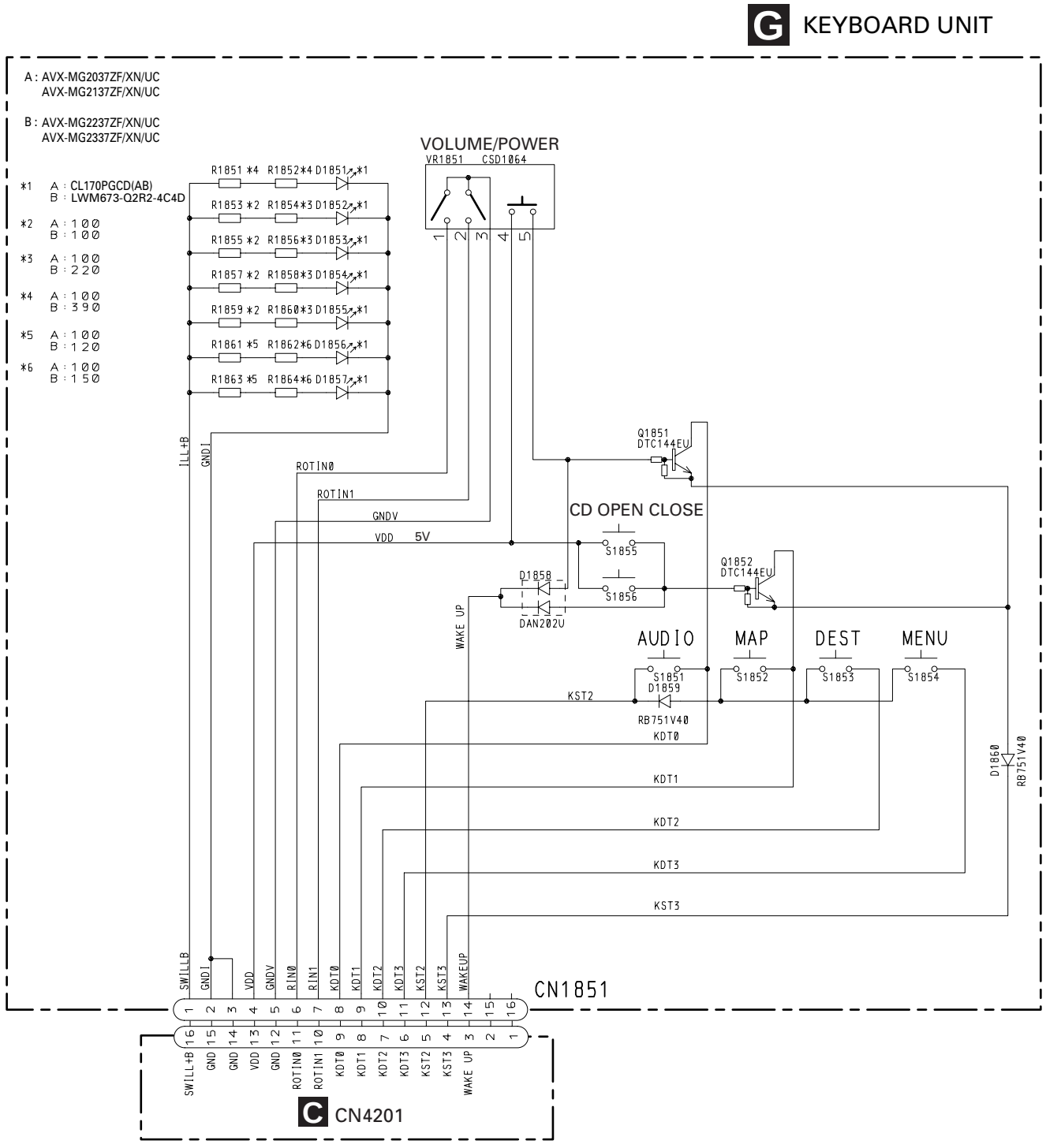
3.8 CONNECTOR PCB



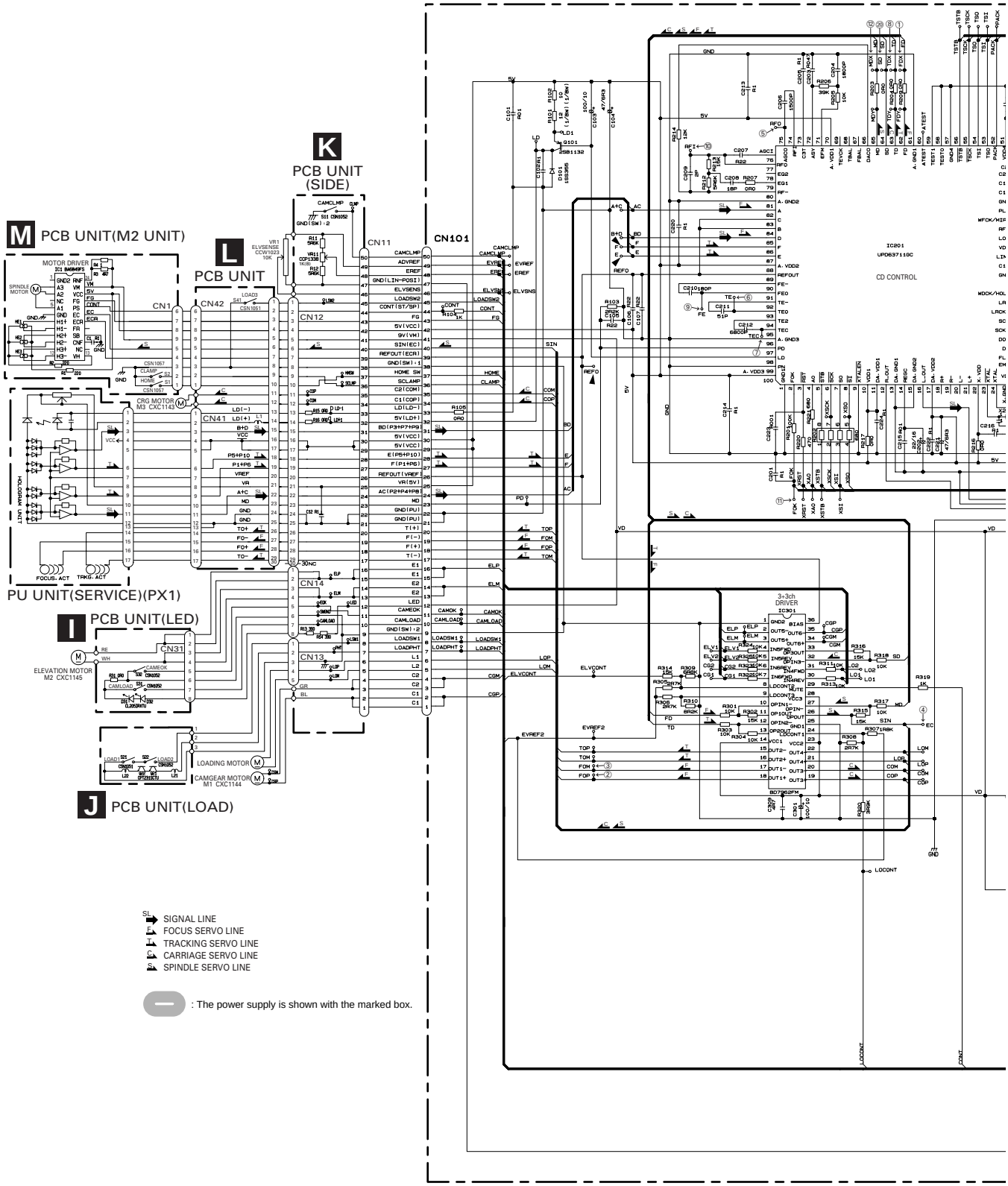
3.9 PANEL PCB UNIT



3.10 KEYBOARD UNIT

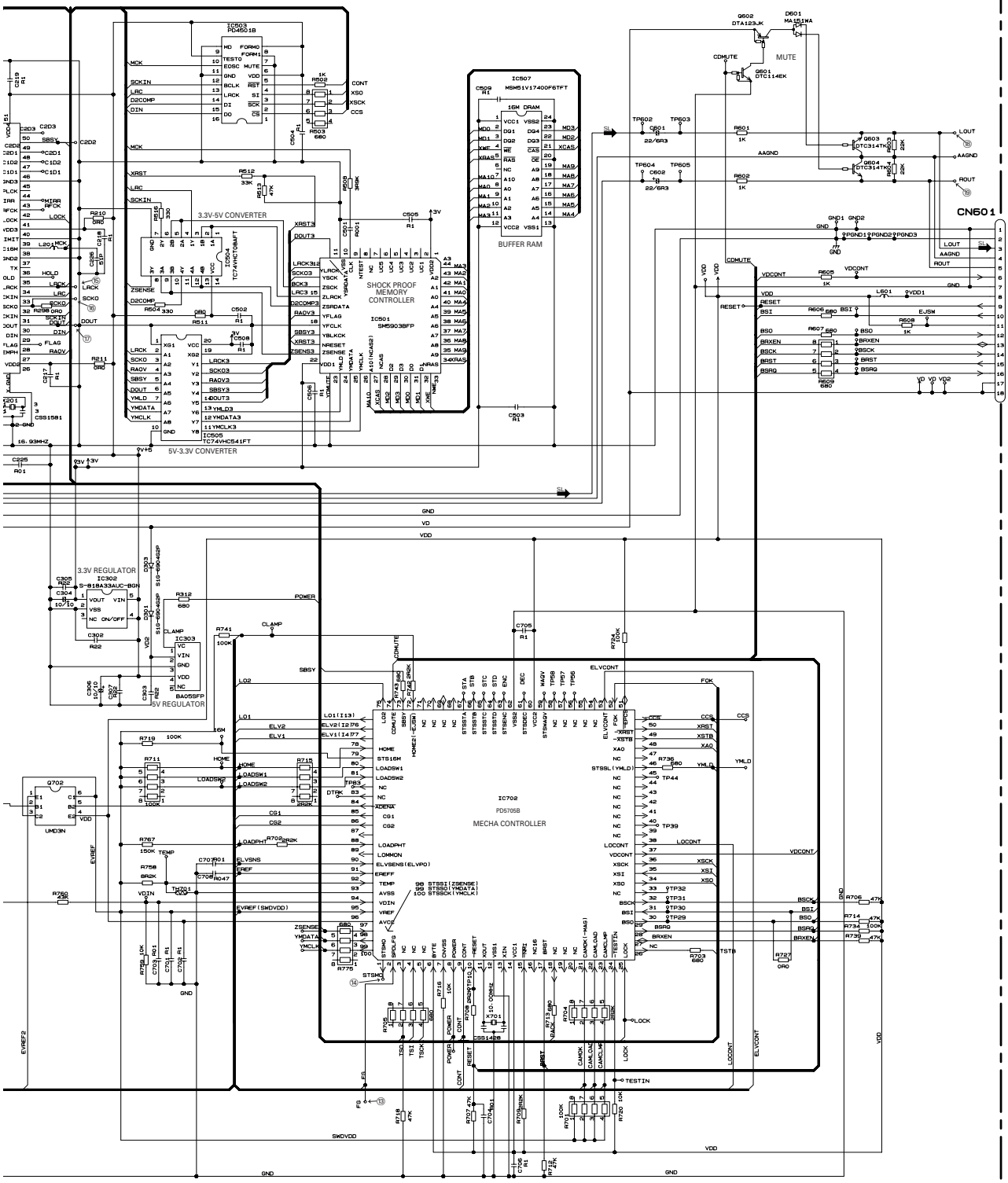


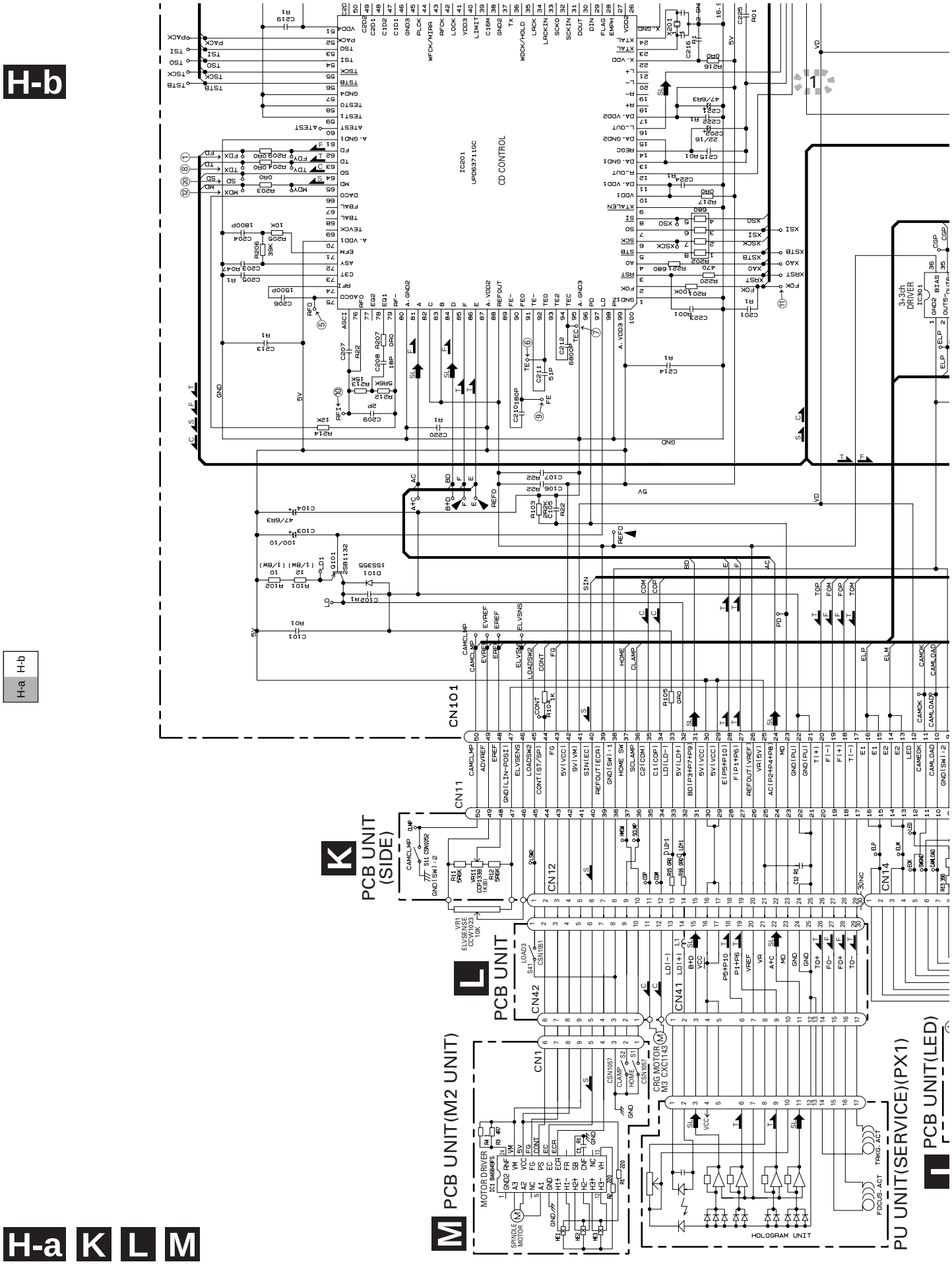
3.11 CD MECHANISM MODULE(G2F)(GUIDE PAGE)



H I J K L M

H CONTROL UNIT(G2F)




H-b
H-a H-b
H-a K L M
CD CONTROL
IC201
UPD63711GC
CN101
CN11
CN12
CN14
CN42
CN41
CN1
PCB UNIT (SIDE)
PCB UNIT
PCB UNIT(M2 UNIT)
PU UNIT(SERVICE)(PX1)
PCB UNIT(LED)
CRG MOTOR
M3 CXC1143
MOTOR DRIVER
IC1
SPINDLE MOTOR
HOLOGRAM UNIT
3-3ch DRIVER
IC301
FOCUS.ACT
TRK.G.ACT

H-b

A

B

C

D

H-a H-b

: The power supply is shown with the marked box.

SL SIGNAL LINE
FL FOCUS SERVO LINE
TL TRACKING SERVO LINE
CL CARRIAGE SERVO LINE
SL SPINDLE SERVO LINE

I PCB UNIT(LED)

J PCB UNIT(LOAD)

PU UNIT(SERVICE)(PX1)

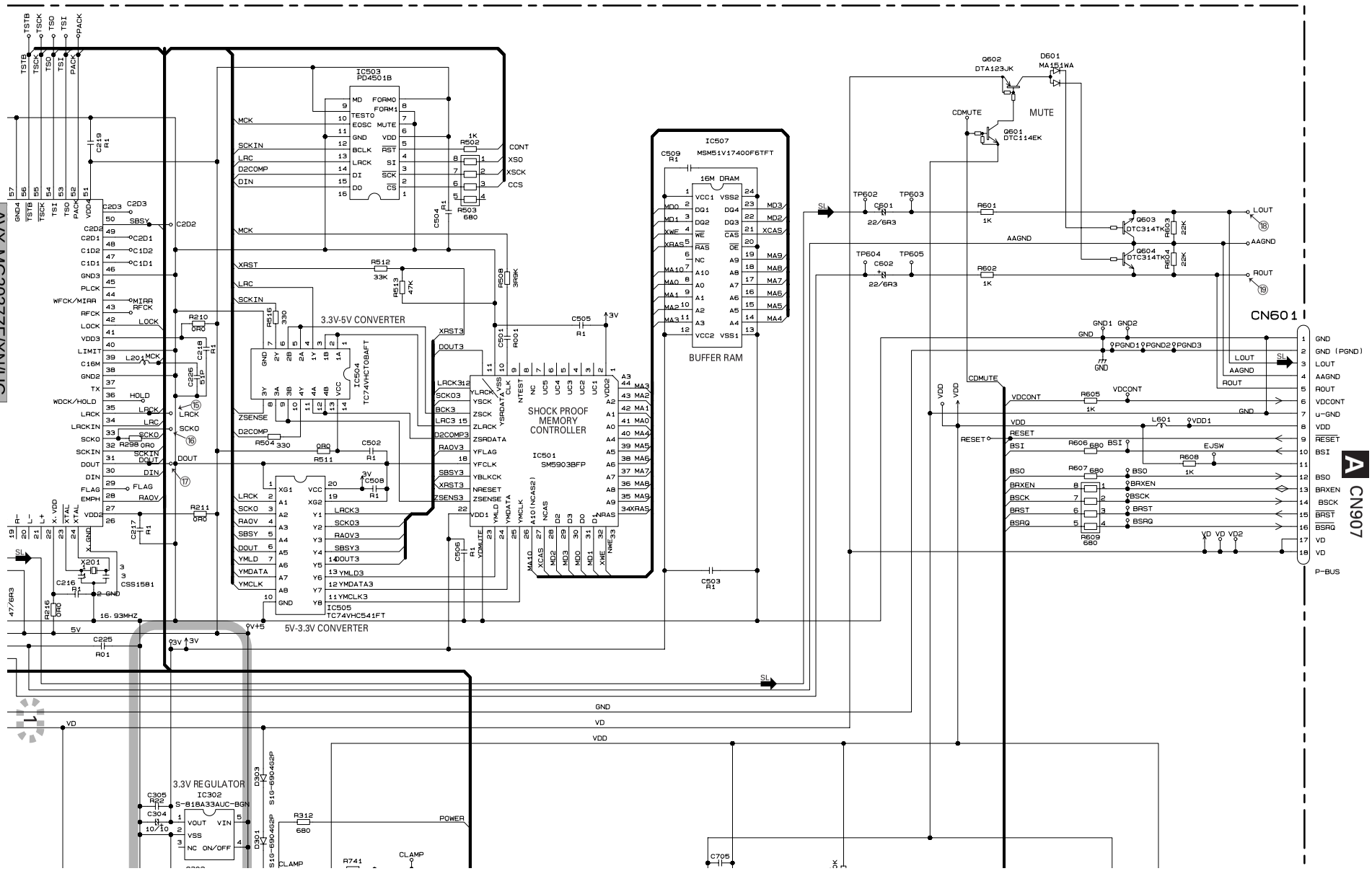
ELEVATION MOTOR
M2 CXC1145

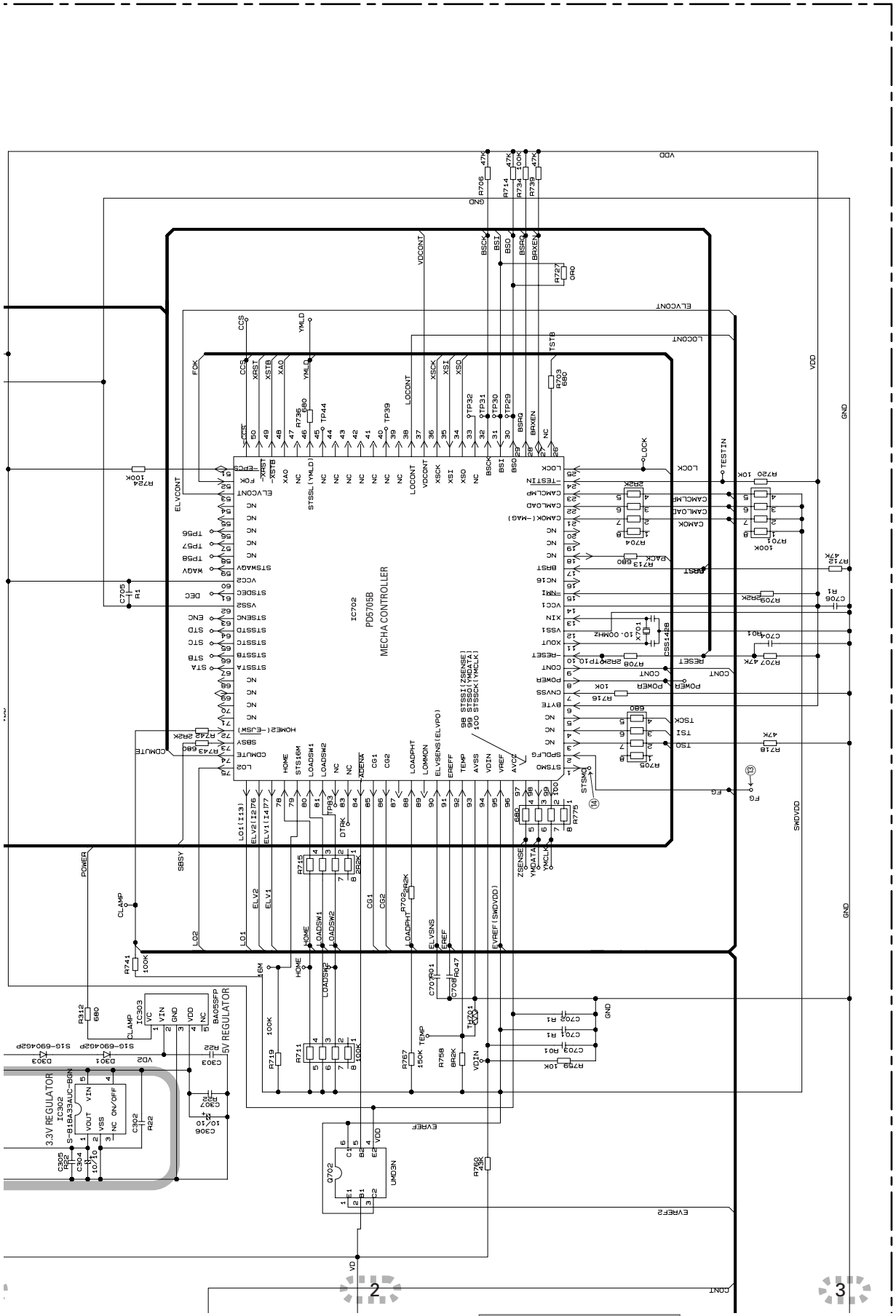
LOADING MOTOR (M)

CAMGEAR MOTOR (M)
M1 CXC1144

H-a I J K

H CONTROL UNIT(G2F)



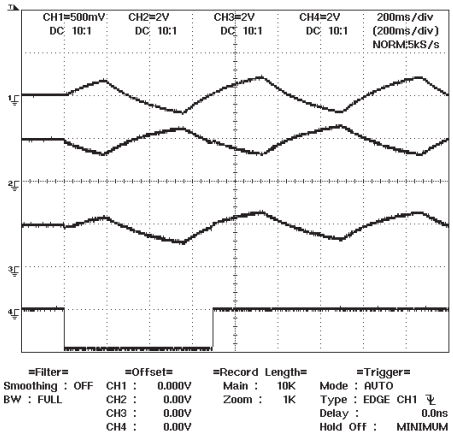

IC702
PD5705B
MECHA CONTROLLER
3.3V REGULATOR
IC302
S-818A33AUC-BGN
5V REGULATOR
IC303
BA05SFP
X701
10.00MHZ
Q702
UMD3N
TH701
150K
VDD
GND
SBSY
POWER
CLAMP
ELVCONT
LOCONT
VDCONT
TSTB
FOK
CCS
XRST
XSTB
XAO
YMLD
XSCK
XSI
XSO
BSCK
BSI
BSO
BSRQ
BRXEN
LOCK
TESTIN
CAMOK
CAMLOAD
CAMCLMP
BACK
RESET
CONT
TSCK
TSI
TSO
FG
STSW
ZSENSE
YMDATA
YMCLK
HOME
LOADSW1
LOADSW2
LOADPHT
LOMMON
ELVSENS(ELVPD)
EREFF
TEMP
AVSS
VDIN
VREF
AVCC
SPDLFG
STSMO
ADENA
CG1
CG2
DTRK
TP83
STS16M
LO1(I13)
LO2(I12)
ELV1(I14)
ELV2(I15)
EVREF(SWDVDD)
SWDVDD
EVREF2
VD
R705
R706
R714
R734
R733
R727
R703
R704
R713
R708
R715
R716
R775
R776
R718
R720
R721
R709
R707
R701
R702
R741
R312
R719
R711
R767
R758
R760
R749
R722
R724
R743
C705
C706
C704
C707
C708
C709
C710
C711
C712
C713
C714
C715
C716
C717
C718
C719
C720
C721
C722
C723
C724
C725
C726
C727
C728
C729
C730
C731
C732
C733
C734
C735
C736
C737
C738
C739
C740
C741
C742
C743
C744
C745
C746

● Waveforms

Note: The encircled numbers denote measuring points in the circuit diagram.

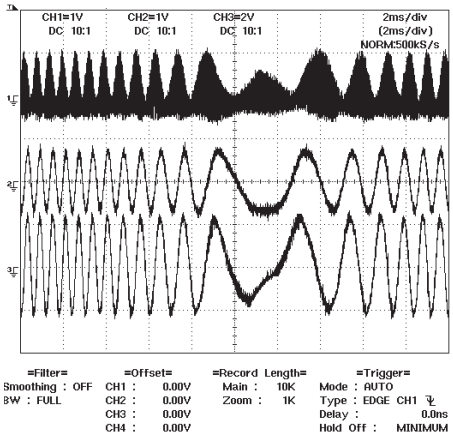
CH1 : ① FDX Mode:Test
CH2 : ② FOP
CH3 : ③ FOM
CH4 : ④ EC

Focus search mode



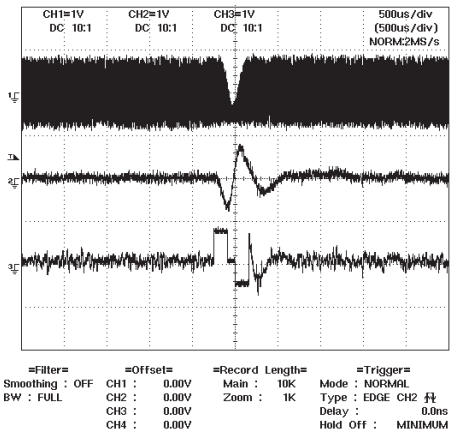
CH1 : ⑤ RFO Mode:Test
CH2 : ⑥ TE
CH3 : ⑦ TEC

Tracking open



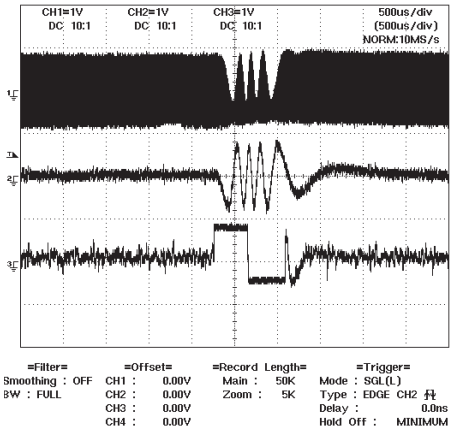
CH1 : ⑤ RFO Mode:Test
CH2 : ⑥ TE
CH3 : ⑧ TDX

1 Track Jump



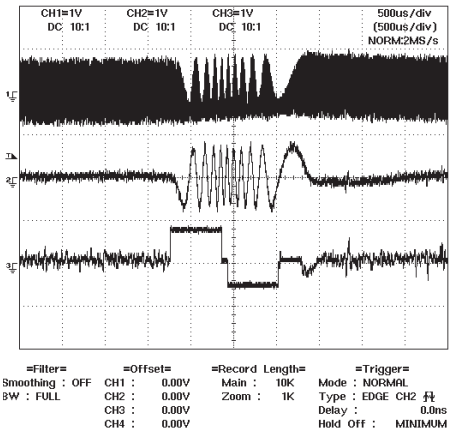
CH1 : ⑤ RFO Mode:Test
CH2 : ⑥ TE
CH3 : ⑧ TDX

4 Track Jump



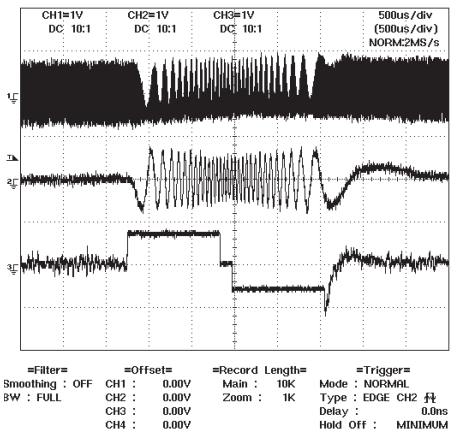
CH1 : ⑤ RFO Mode:Test
CH2 : ⑥ TE
CH3 : ⑧ TDX

10 Track Jump



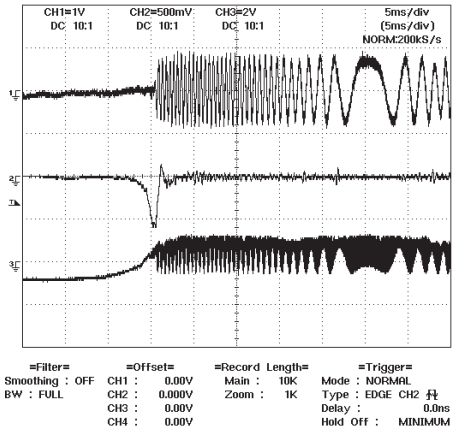
CH1 : ⑤ RFO Mode:Test
CH2 : ⑥ TE
CH3 : ⑧ TDX

32 Track Jump



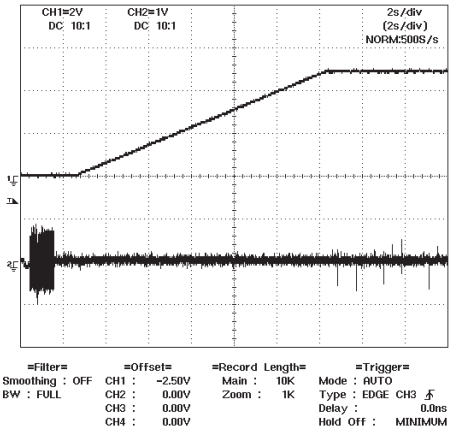
CH1 : ⑥ TE Mode:Normal
CH2 : ⑨ FE
CH3 : ⑩ RFI

Focus close



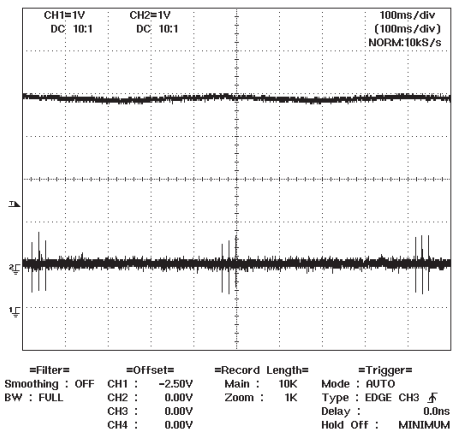
CH1 : ⑭ STSMO Mode:Normal
CH2 : ⑥ TE

Memory capacity (remaining) at the starting of PLAY



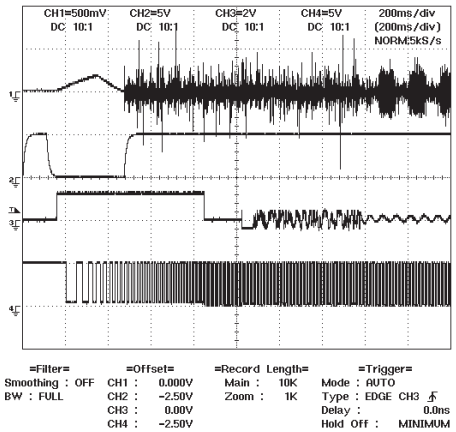
CH1 : ⑭ RFO Mode:Normal
CH2 : ⑥ TE

Memory capacity (remaining) during PLAY



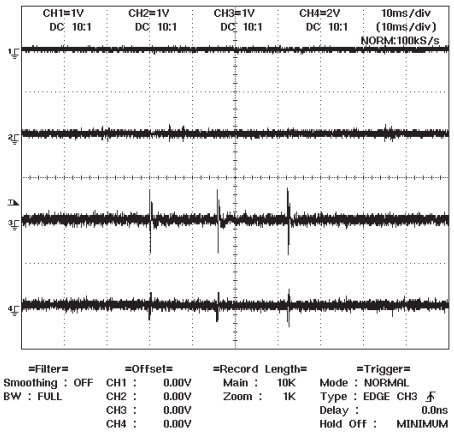
CH1 : ① FDX Mode:Normal
CH2 : ⑪ FOK
CH3 : ⑫ MDX
CH4 : ⑬ FG

Setup



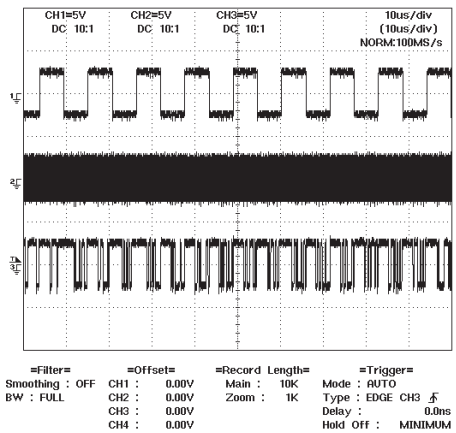
CH1 : ⑨ FE Mode:Normal
CH2 : ① FDX
CH3 : ⑥ TE
CH4 : ⑧ TDX

During "Play"



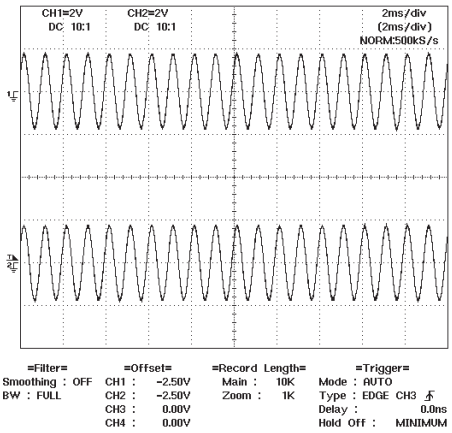
CH1 : ⑮ LRCK Mode:Normal
CH2 : ⑯ SCKO
CH3 : ⑰ DOUT

Digital audio data(x2 speed)

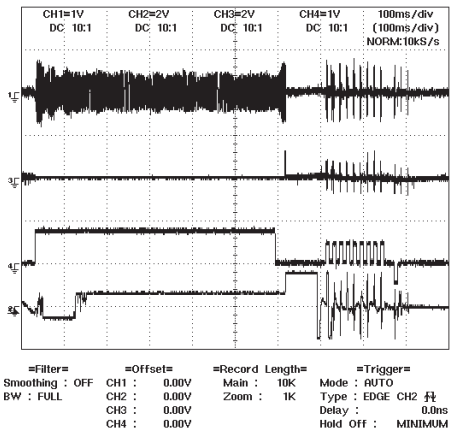


CH1 : ⑱ LOUT Mode:Normal
CH2 : ⑲ ROUT

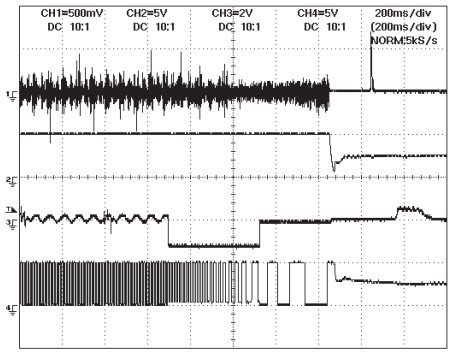
Audio output(1kHz , 0dB)



CH1 : ⑥ TE Mode:Normal
CH2 : ⑧ TDX
CH3 : ⑳ SD
CH4 : ④ EC
During inside / outside search



CH1 : ① FDX Mode:Normal
CH2 : ⑪ FOK
CH3 : ⑫ MDX
CH4 : ⑬ FG
DISC stop



A

B

C

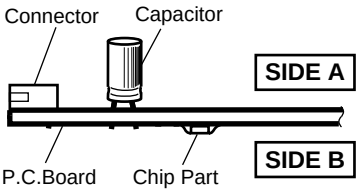
D

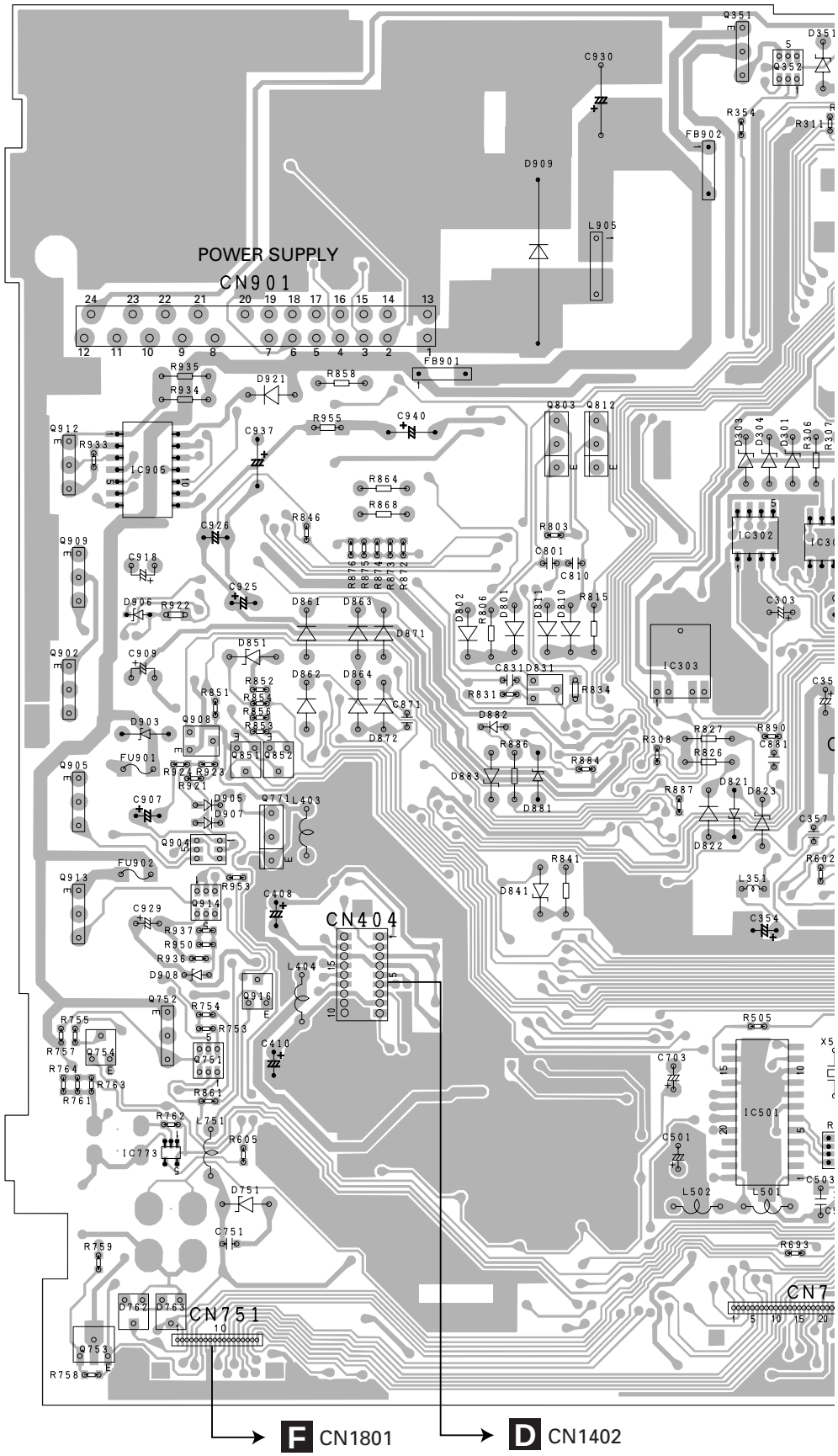
4. PCB CONNECTION DIAGRAM
4.1 TUNER AUDIO UNIT

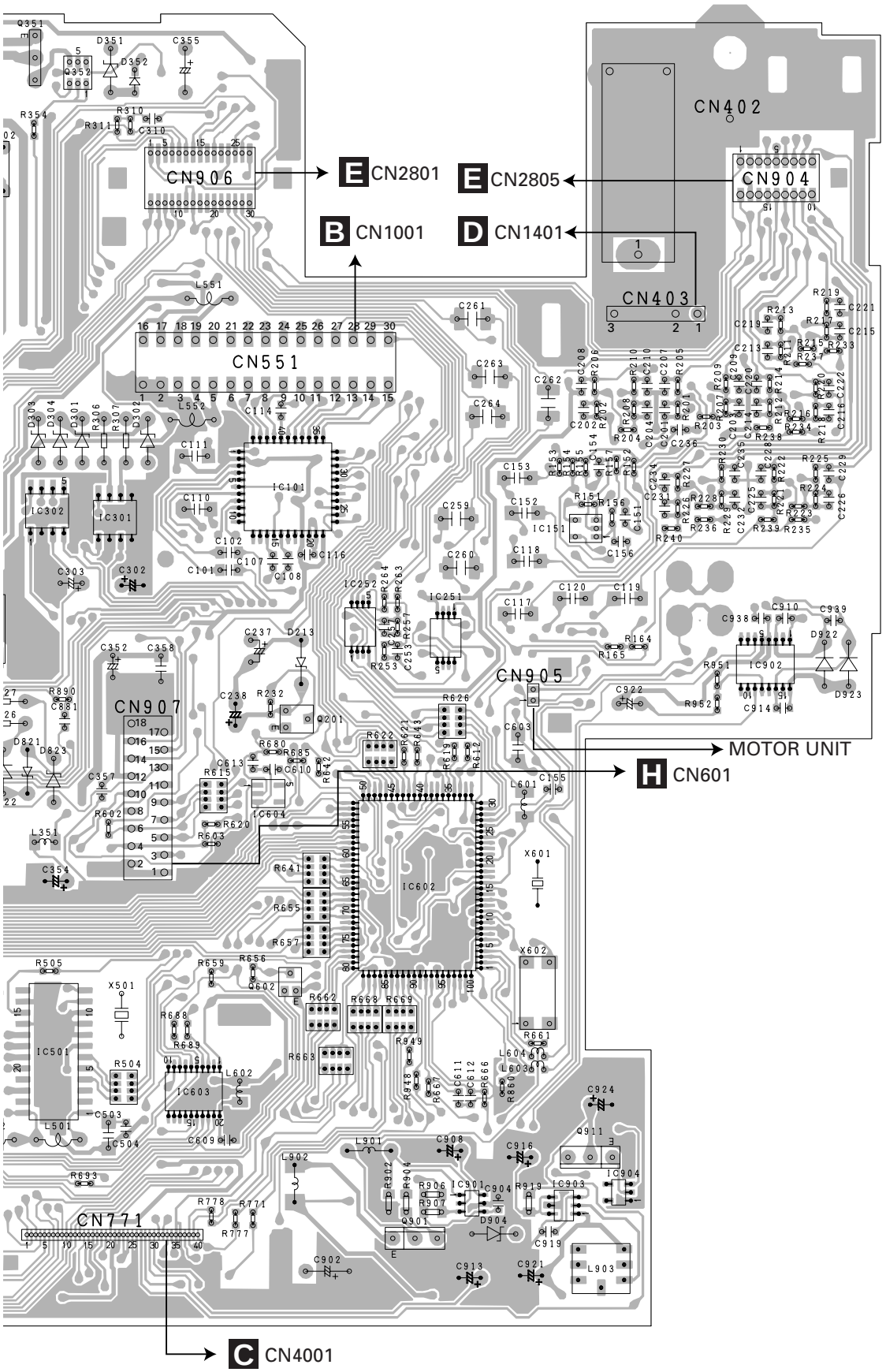
A TUNER AUDIO UNIT

NOTE FOR PCB DIAGRAMS

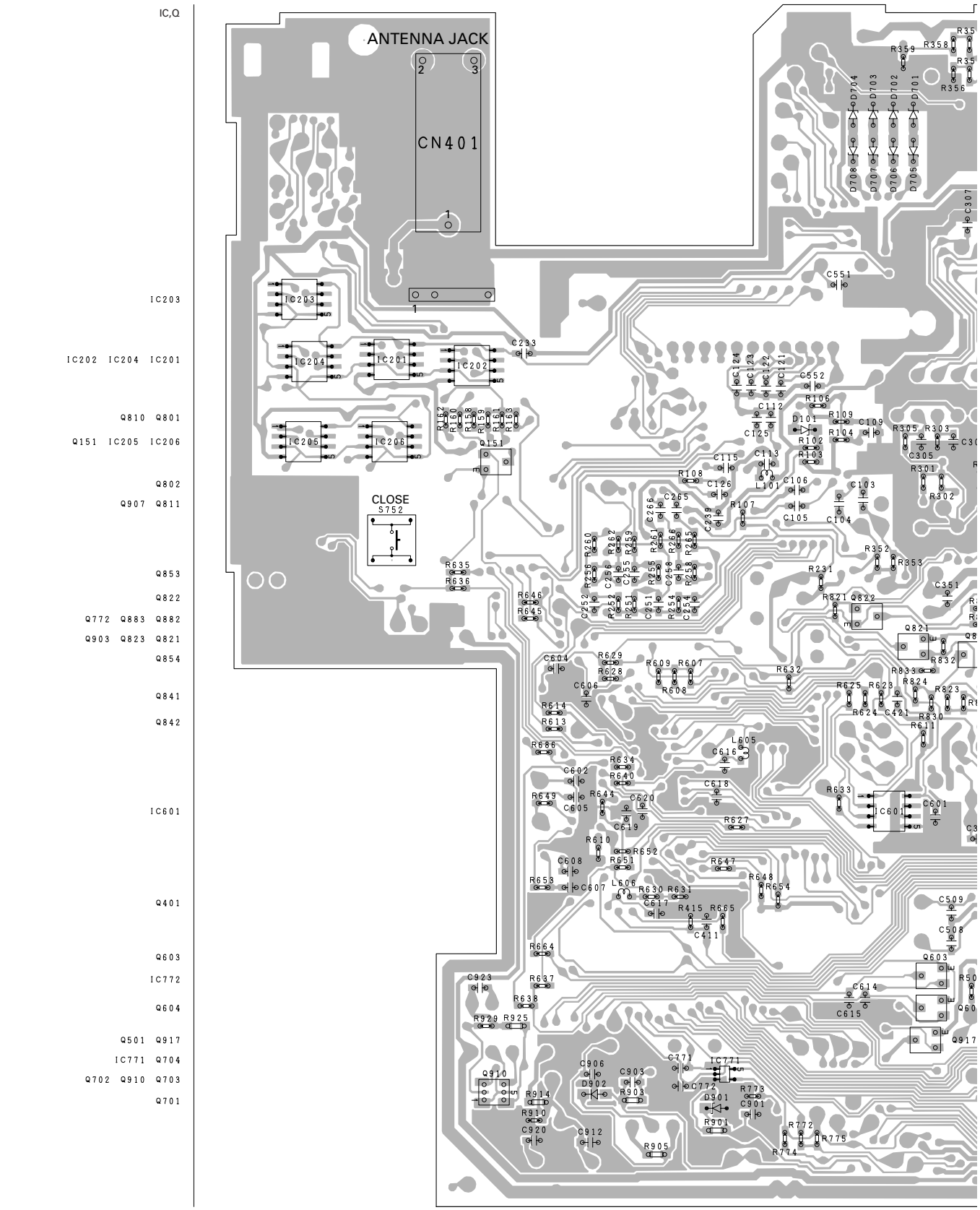
1. The parts mounted on this PCB include all necessary parts for several destination. For further information for respective destinations, be sure to check with the schematic diagram.
2. Viewpoint of PCB diagrams



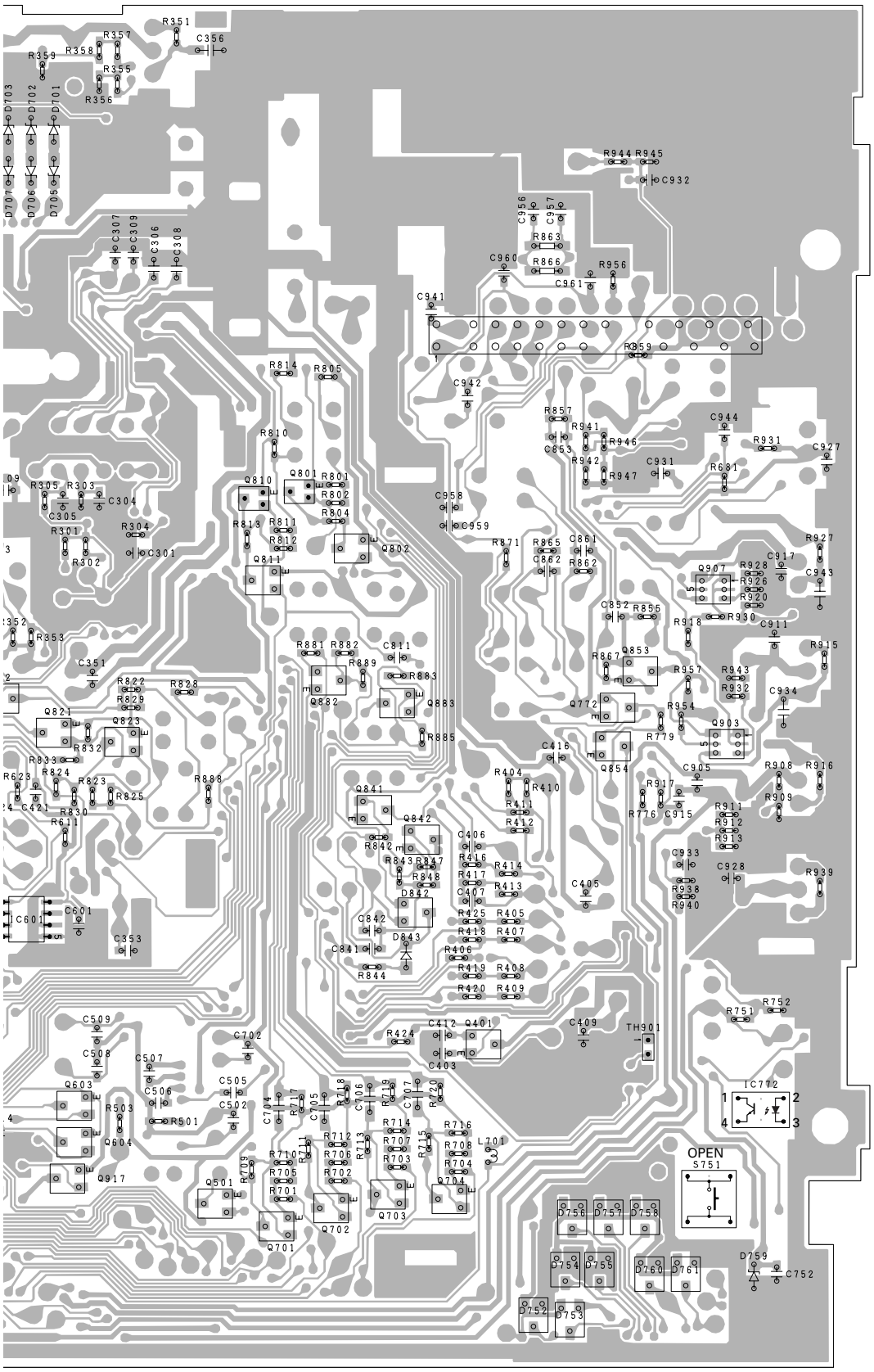



SIDE A
CN402
CN906
CN904
CN403
CN551
CN907
CN905
CN771
E CN2801
E CN2805
B CN1001
D CN1401
MOTOR UNIT
H CN601
C CN4001
IC101
IC301
IC302
IC151
IC252
IC251
IC902
IC602
IC604
IC501
IC603
IC901
IC903
IC904
Q351
Q352
Q803 Q812
Q912
IC905
IC101
IC302 Q909 IC301
IC151
IC252
IC251
Q902 IC303
IC902
Q908
Q851 Q852 Q201
Q905
Q771
Q904
IC604 Q913
Q914
IC602
Q916 Q752
Q602
Q754 Q751
IC501
IC773 IC603
Q911
IC904
IC903 IC901
Q901
Q753

A TUNER AUDIO UNIT



SIDE B



4.2 MODULE UNIT

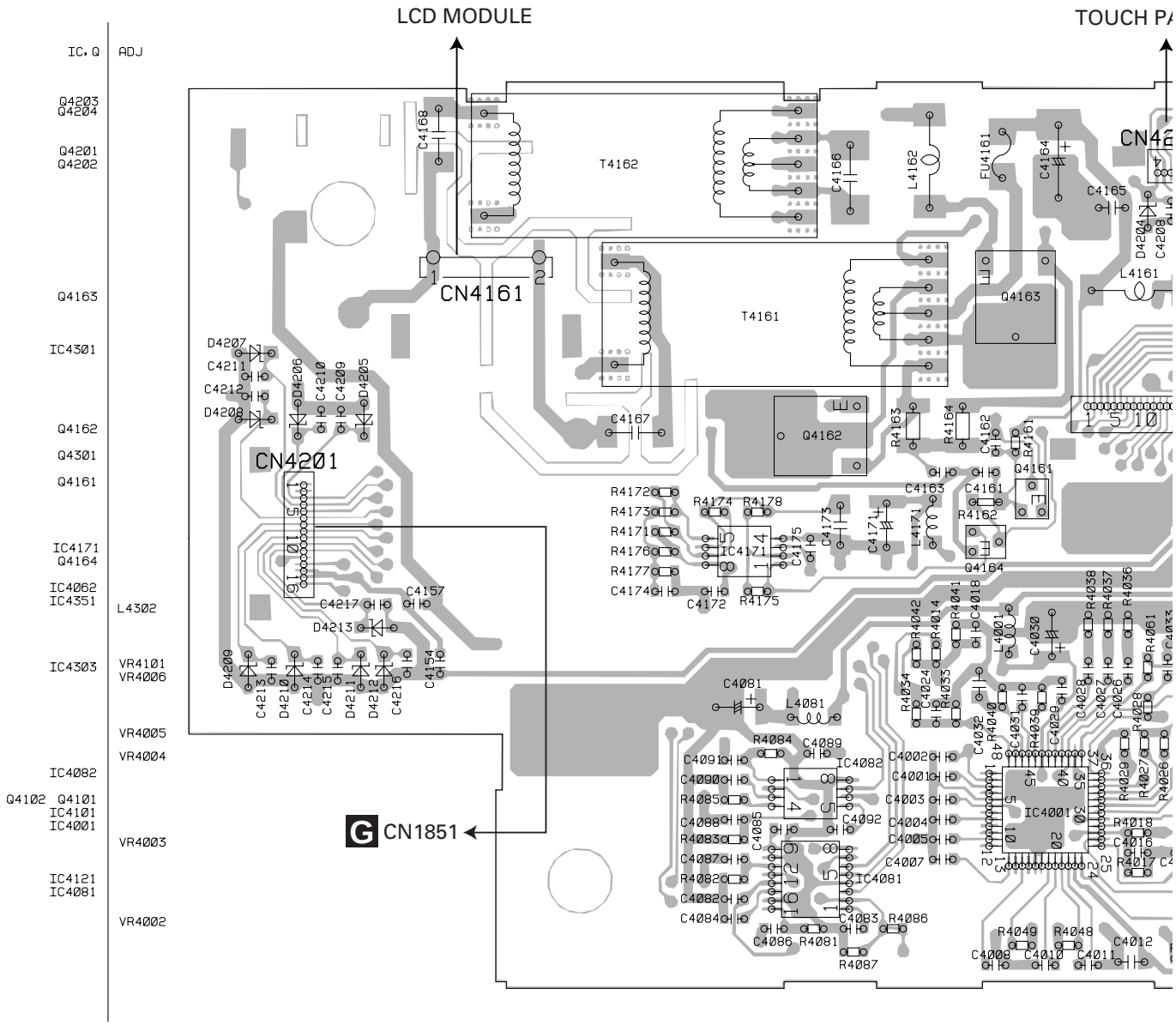
A

B

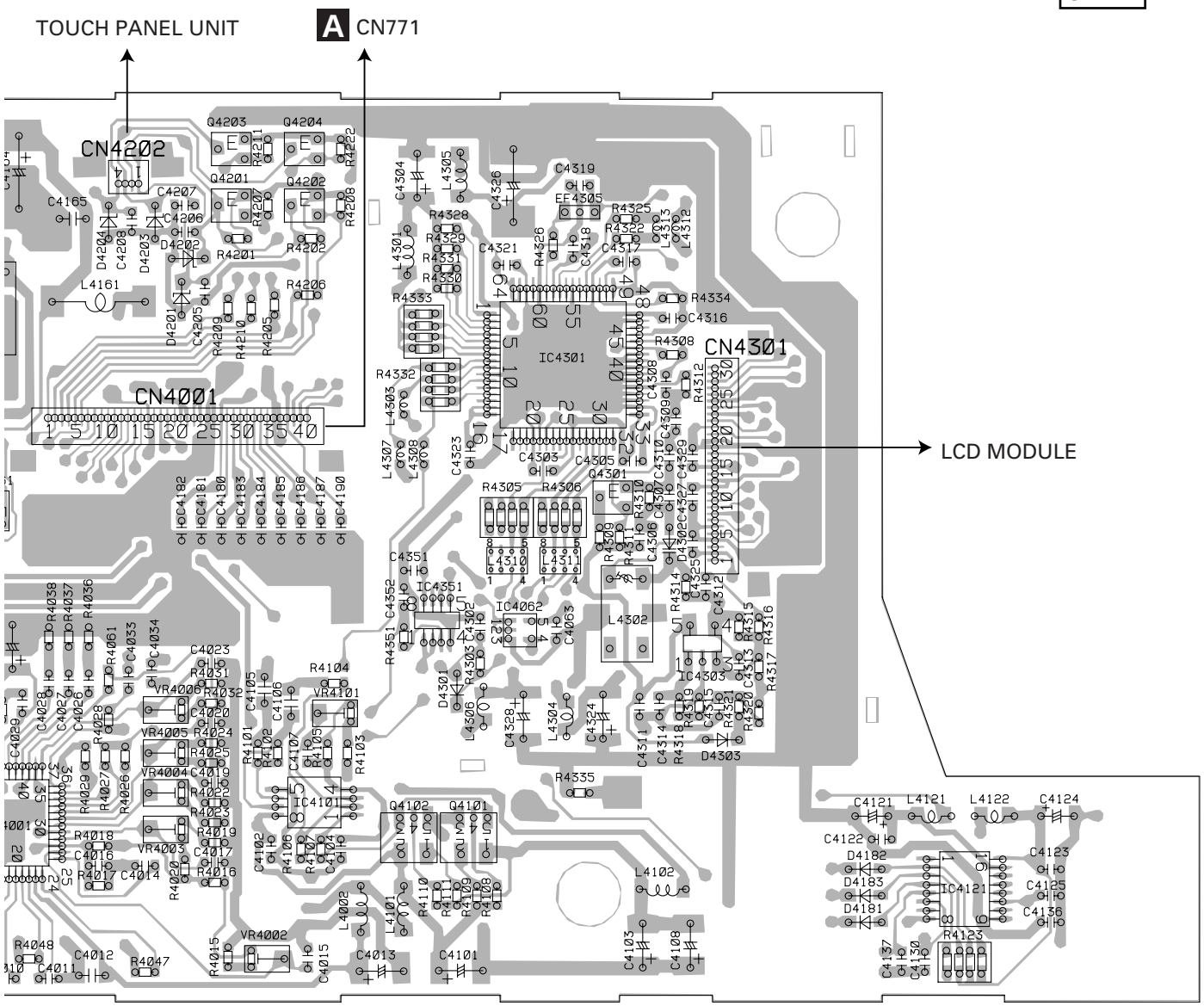
C

D

C MODULE UNIT



SIDE A


TOUCH PANEL UNIT
A CN771
CN4202
CN4001
CN4301
LCD MODULE
IC4301
IC4351
IC4062
IC4303
IC4101
IC4121
Q4203
Q4204
Q4201
Q4202
Q4102
Q4101
Q4301
L4161
L4302
L4102
L4121
L4122
D4303
D4182
D4183
D4181
R4123
VR4002
VR4003
VR4004
VR4005
VR4006
VR4101

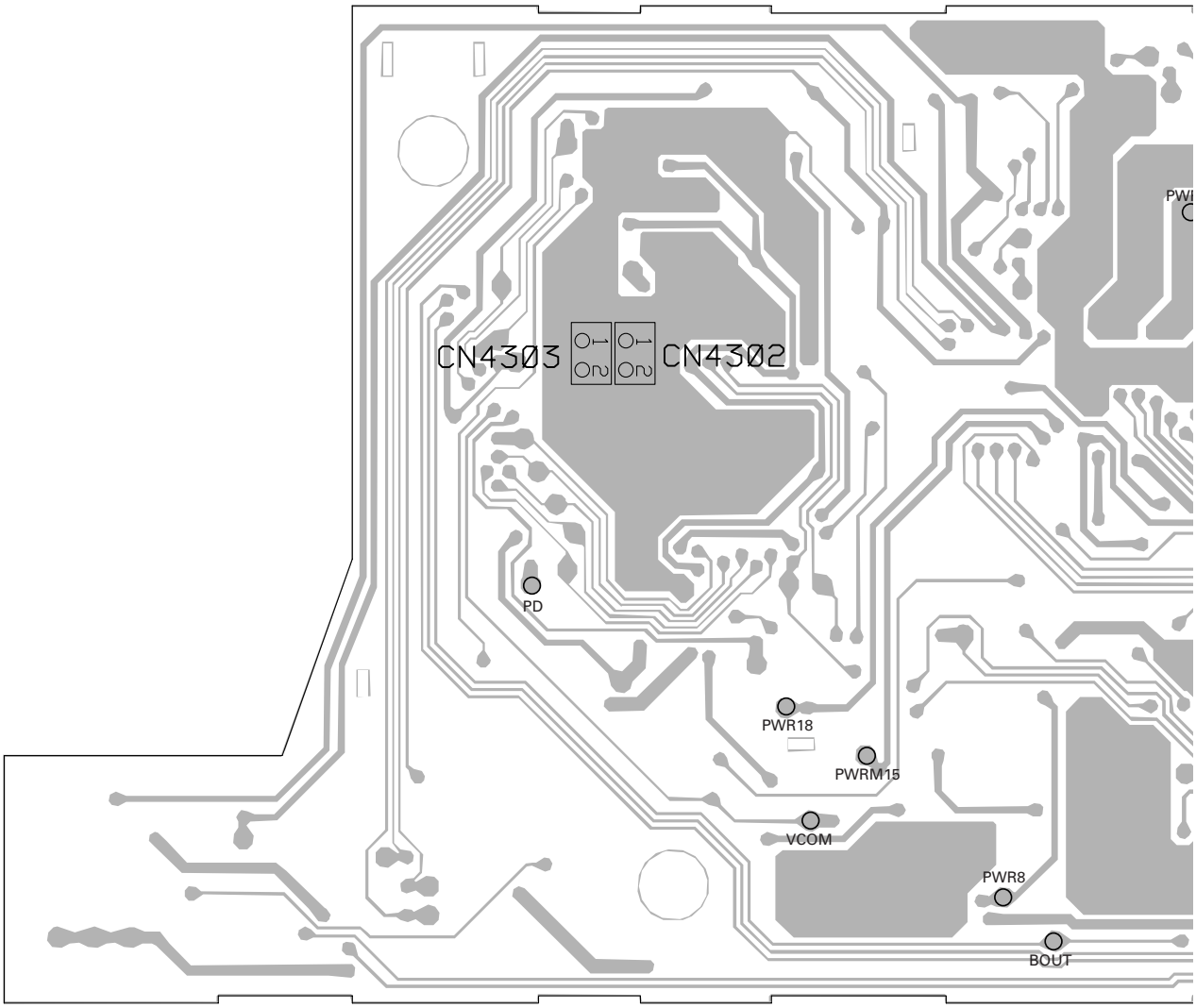
A

B

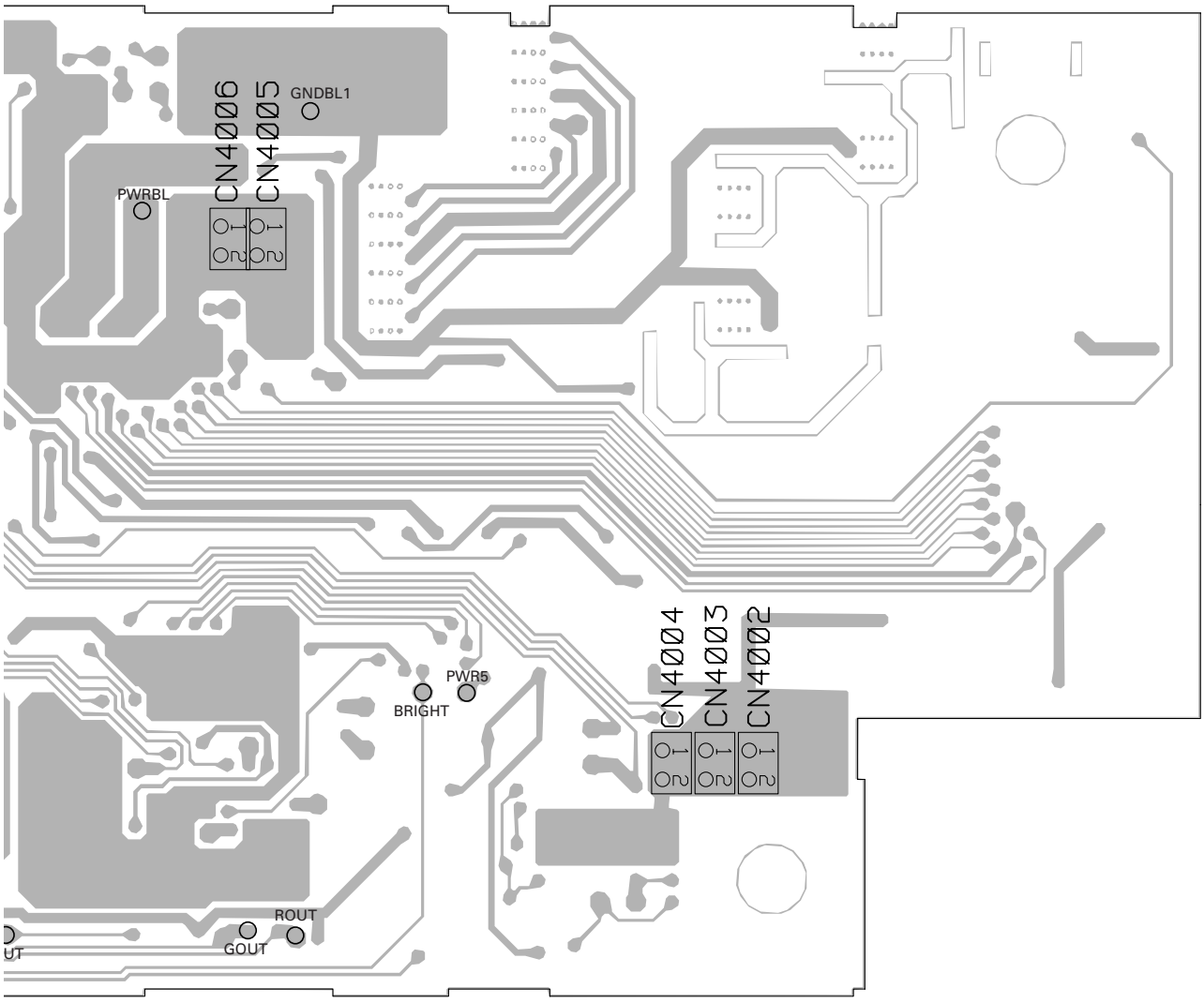
C

D

C MODULE UNIT



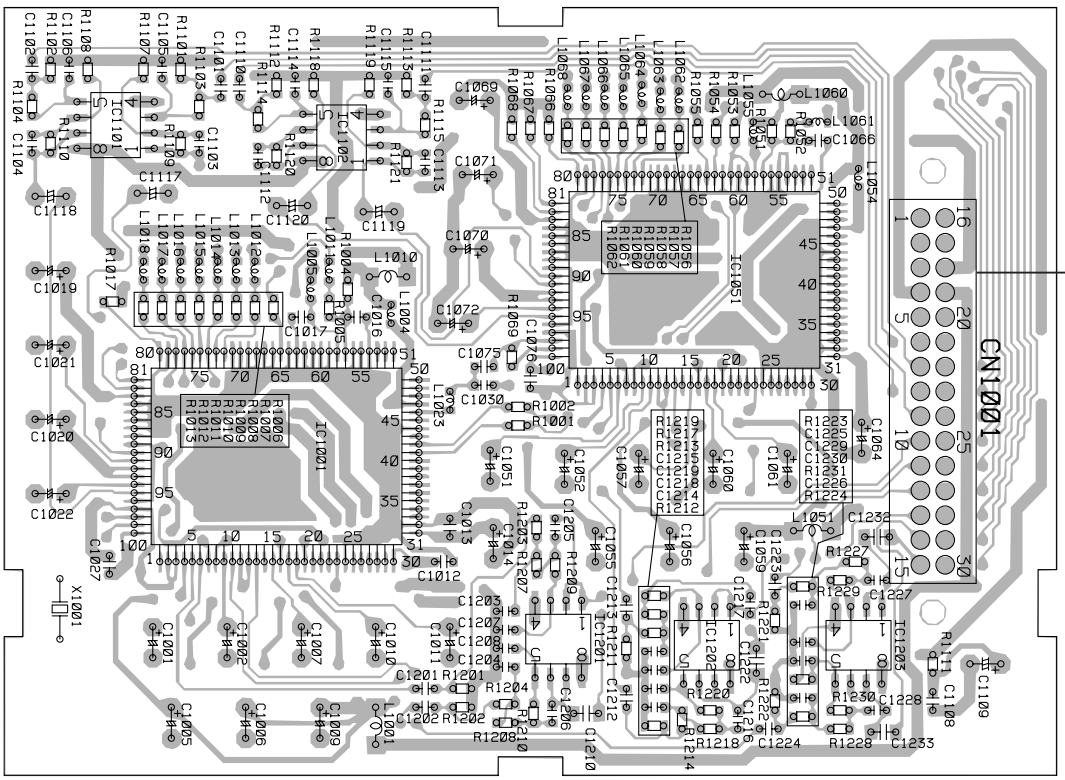
SIDE B


CN4006
CN4005
GNDBL1
PWRBL
CN4004
CN4003
CN4002
PWR5
BRIGHT
ROUT
GOUT
UT

4.3 DSP UNIT

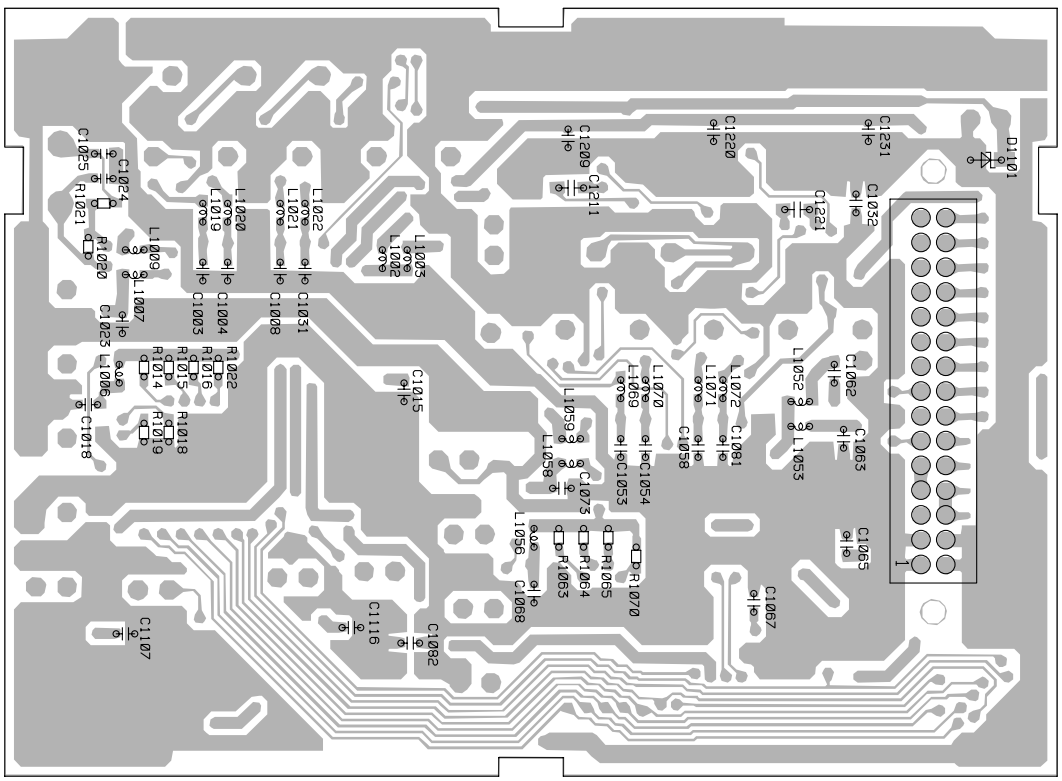
B DSP UNIT

SIDE A



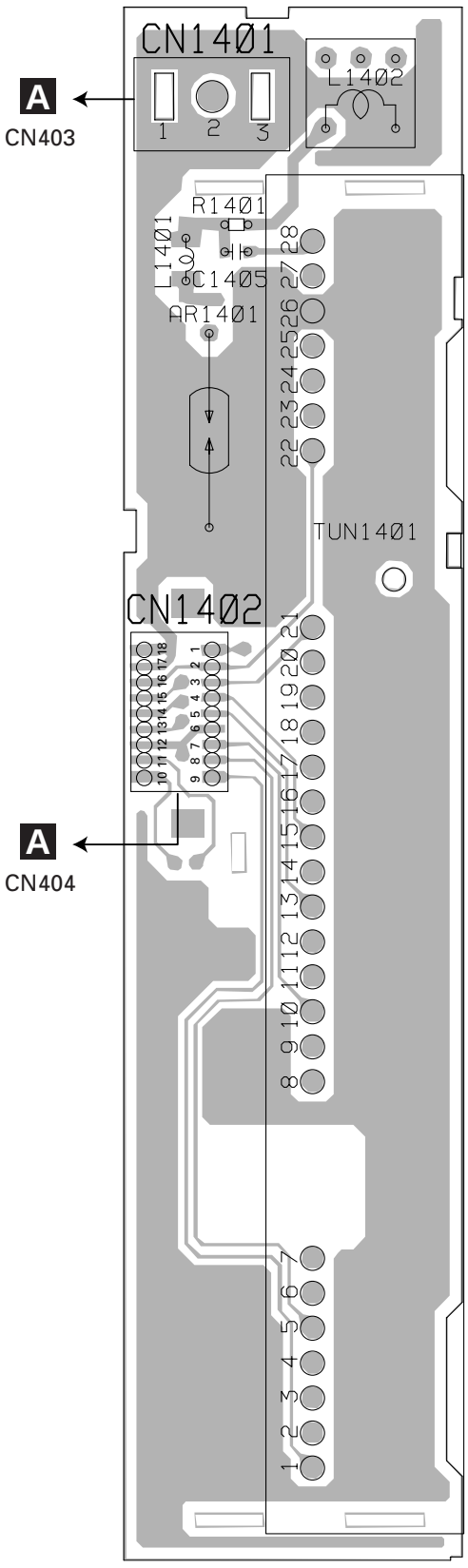
B DSP UNIT

SIDE B

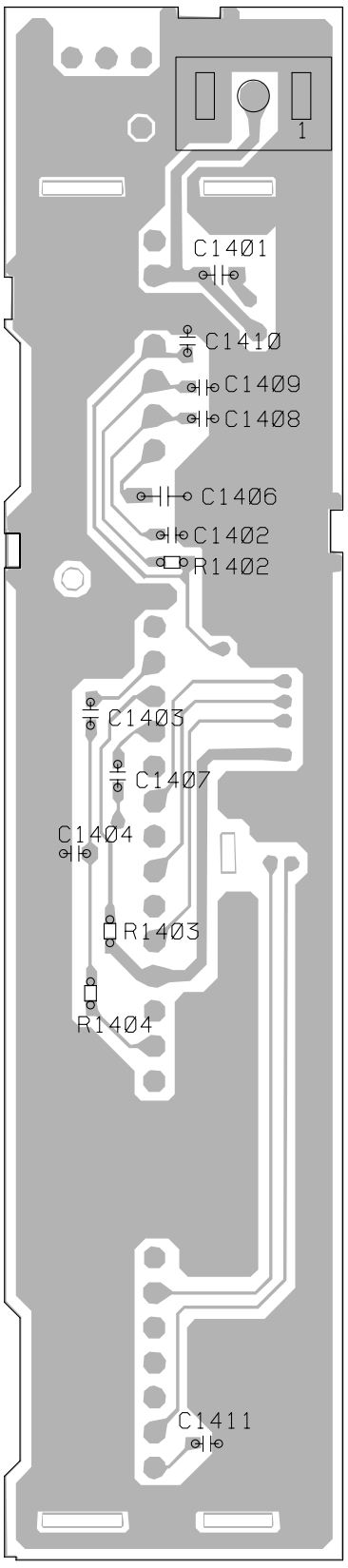


4.4 TUNER PCB

D TUNER PCB **SIDE A**



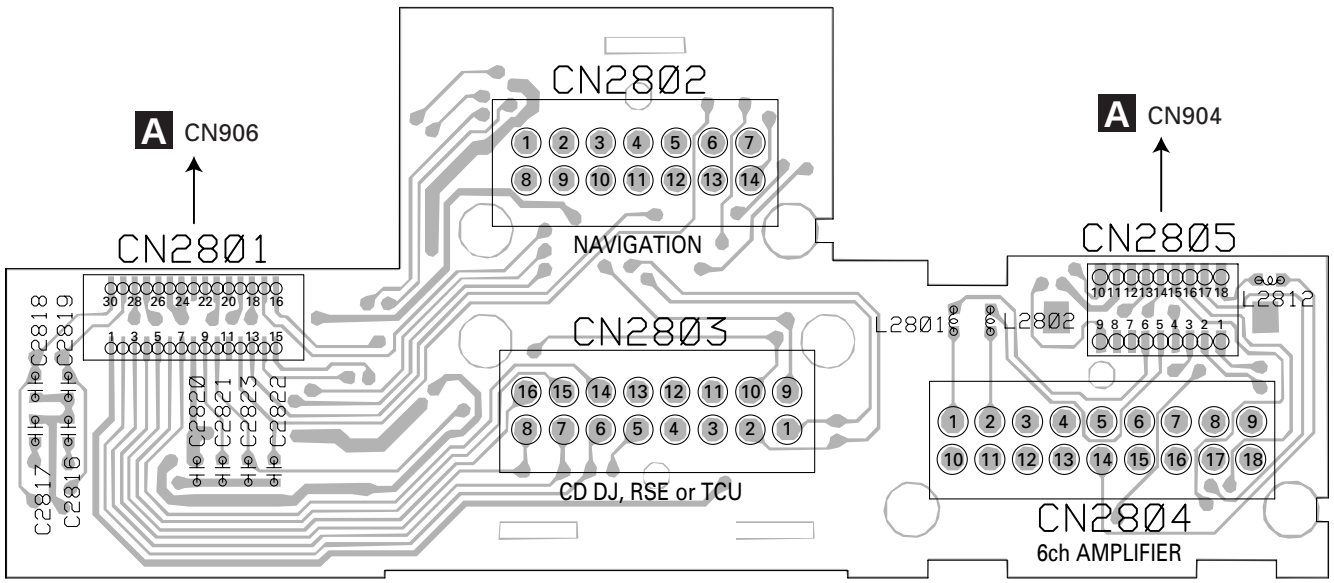
D TUNER PCB **SIDE B**



4.5 CONNECTOR PCB

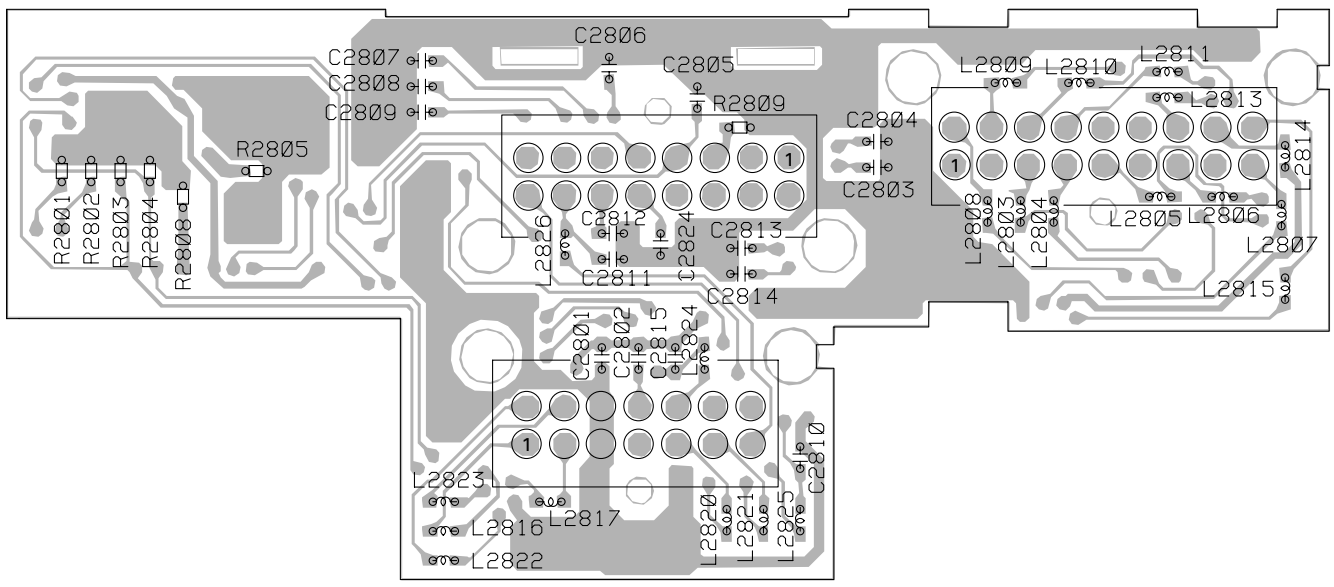
E CONNECTOR PCB

SIDE A



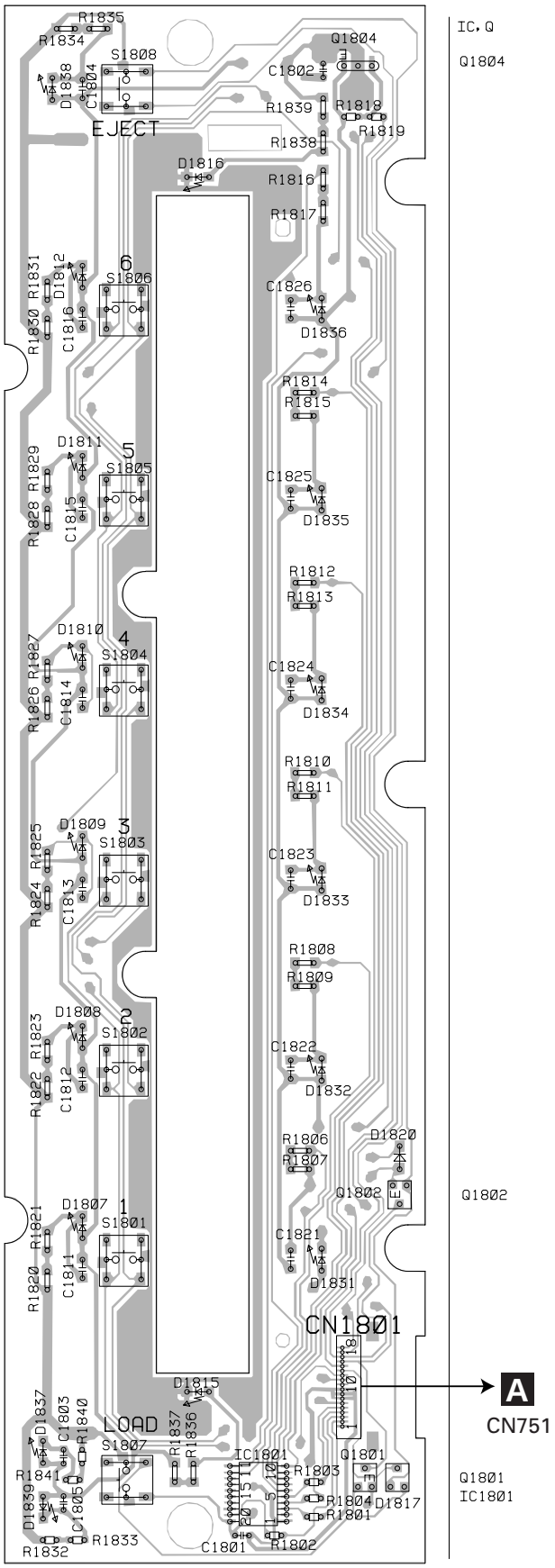
E CONNECTOR PCB

SIDE B

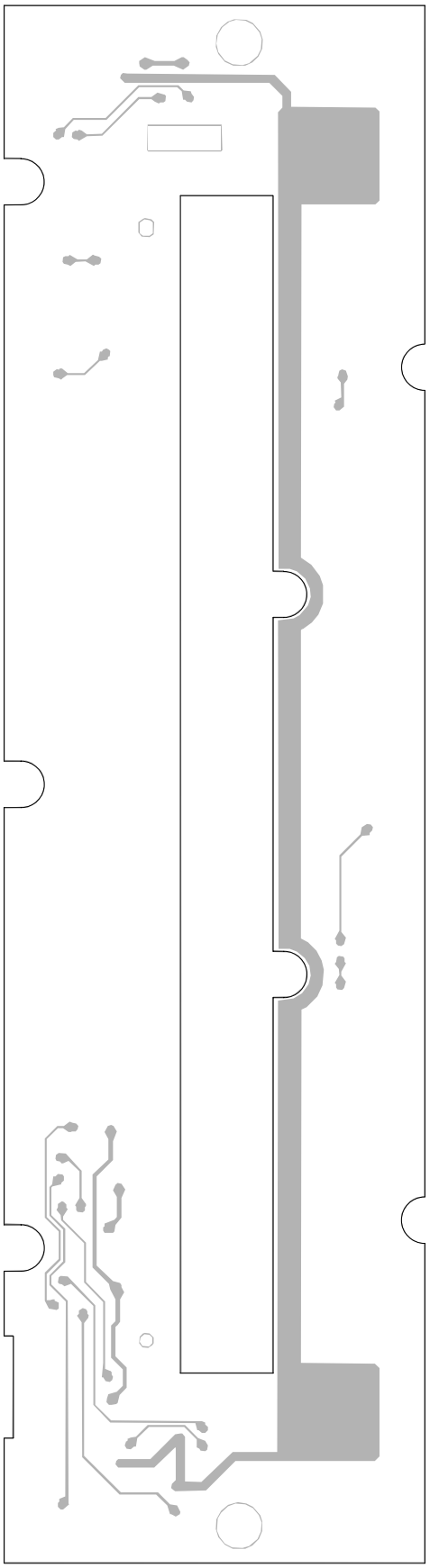


4.6 PANEL PCB UNIT

F PANEL PCB UNIT **SIDE A**

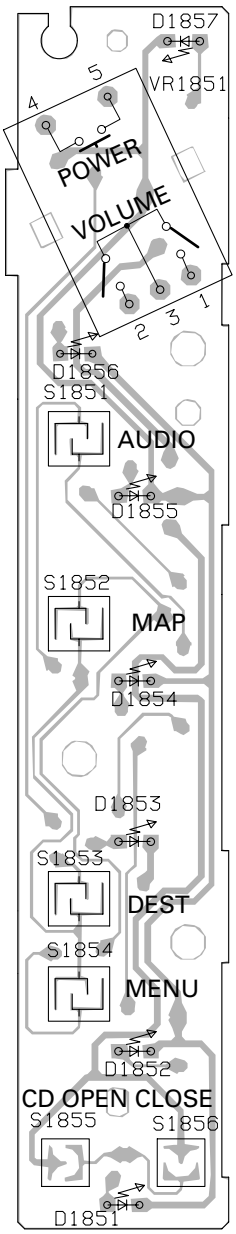


F PANEL PCB UNIT **SIDE B**

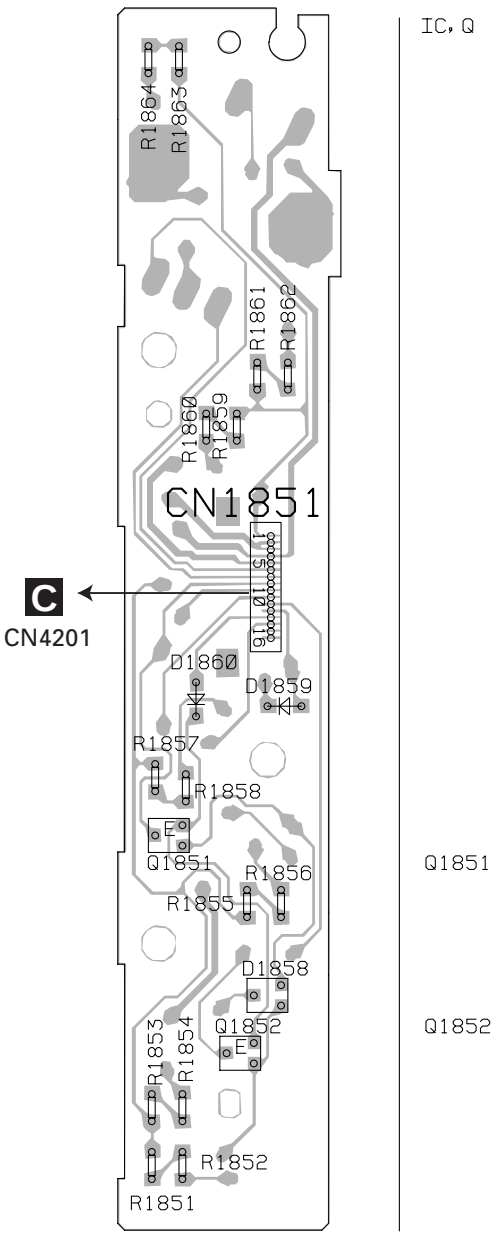


4.7 KEYBOARD UNIT

G KEYBOARD UNIT **SIDE A**



G KEYBOARD UNIT **SIDE B**



A

B

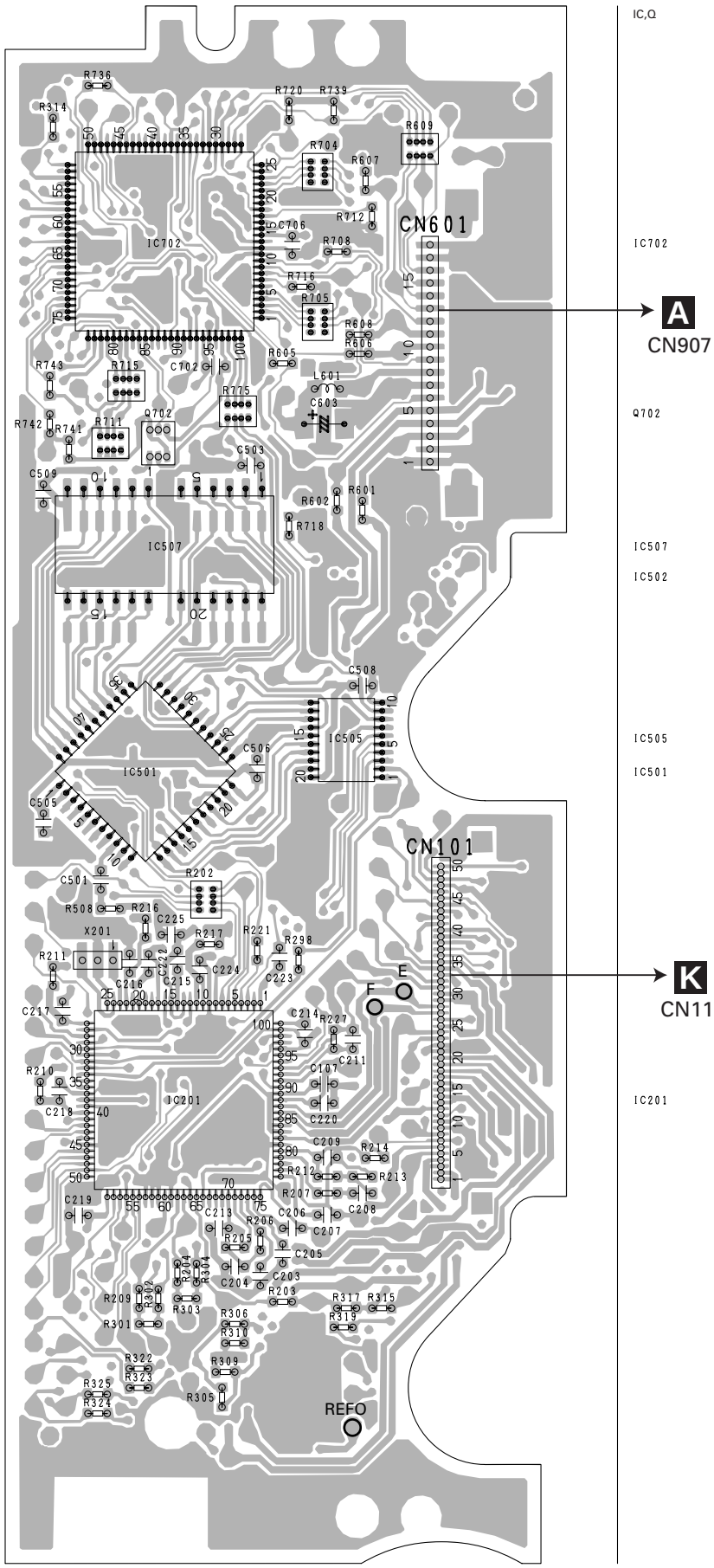
C

D

4.8 CONTROL UNIT(G2F)

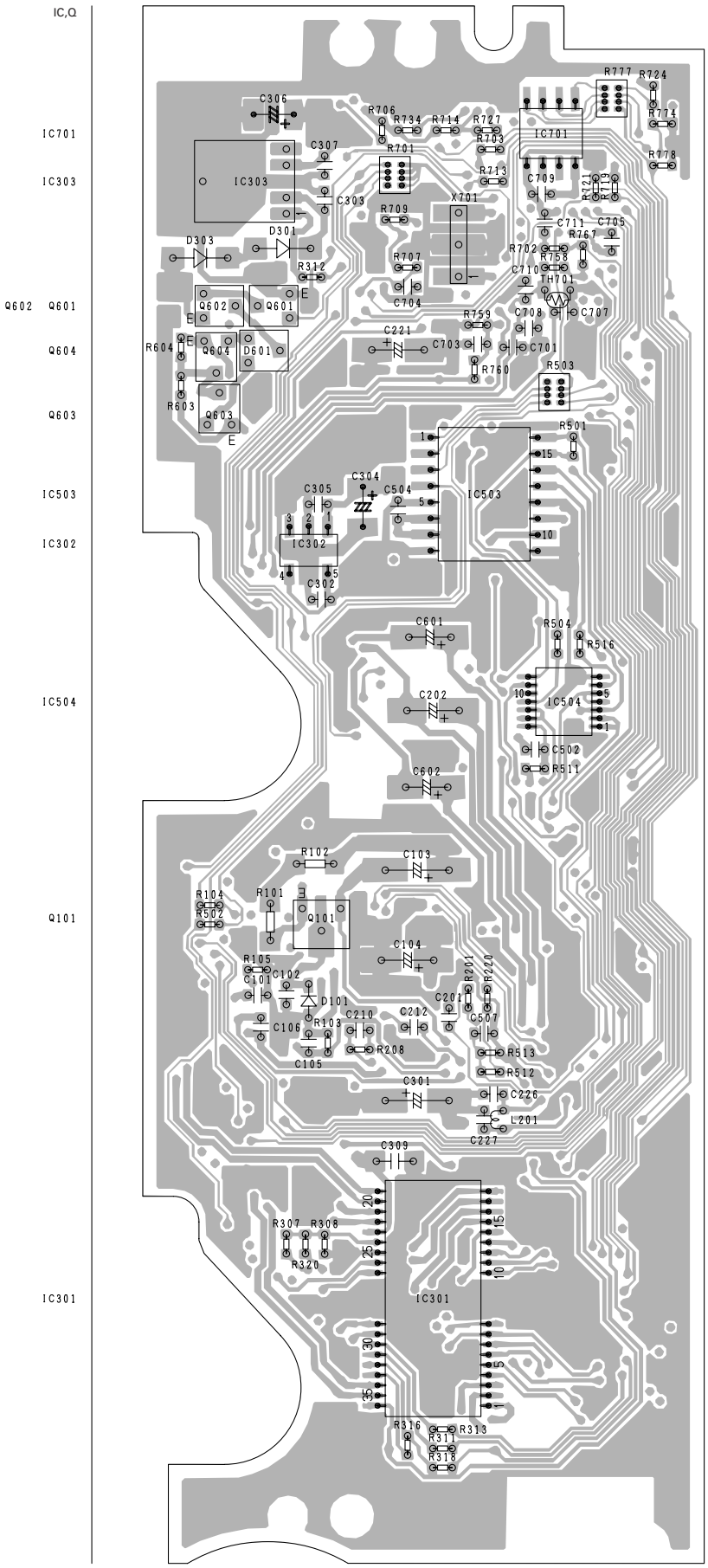
H CONTROL UNIT (G2F)

SIDE A



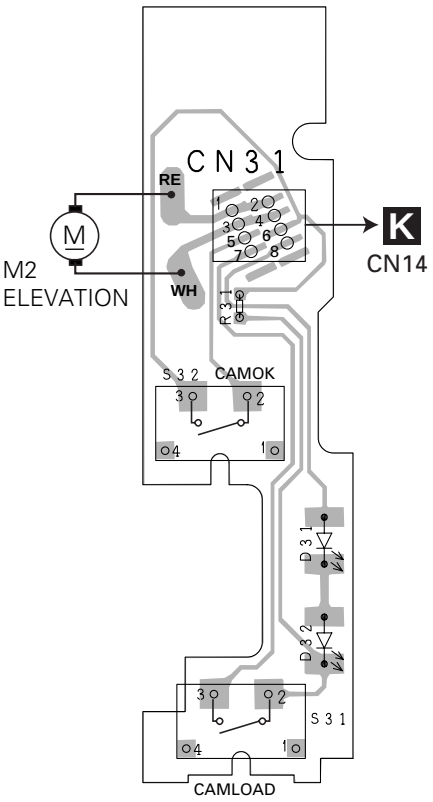
H CONTROL UNIT (G2F)

SIDE B

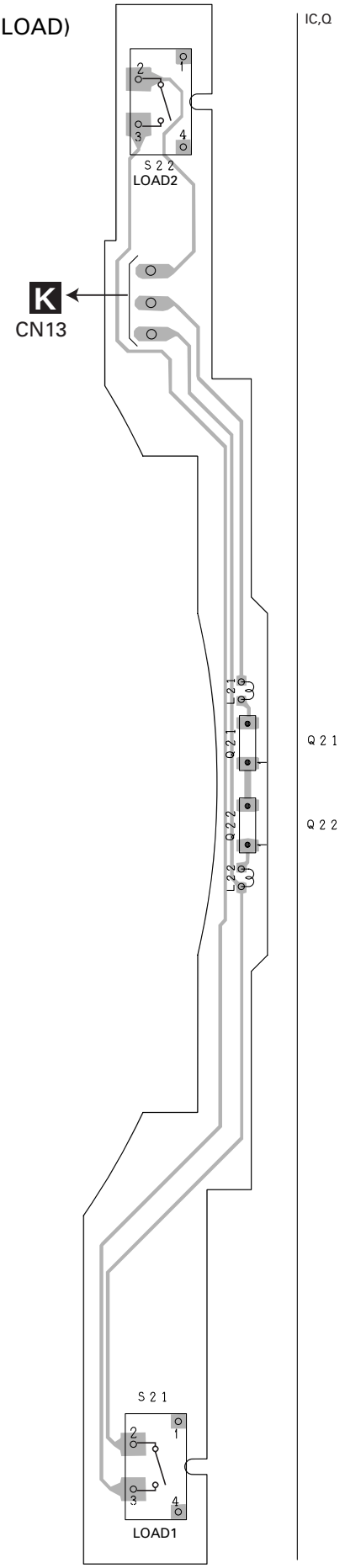


4.9 PCB UNIT(LED),PCB UNIT(LOAD)

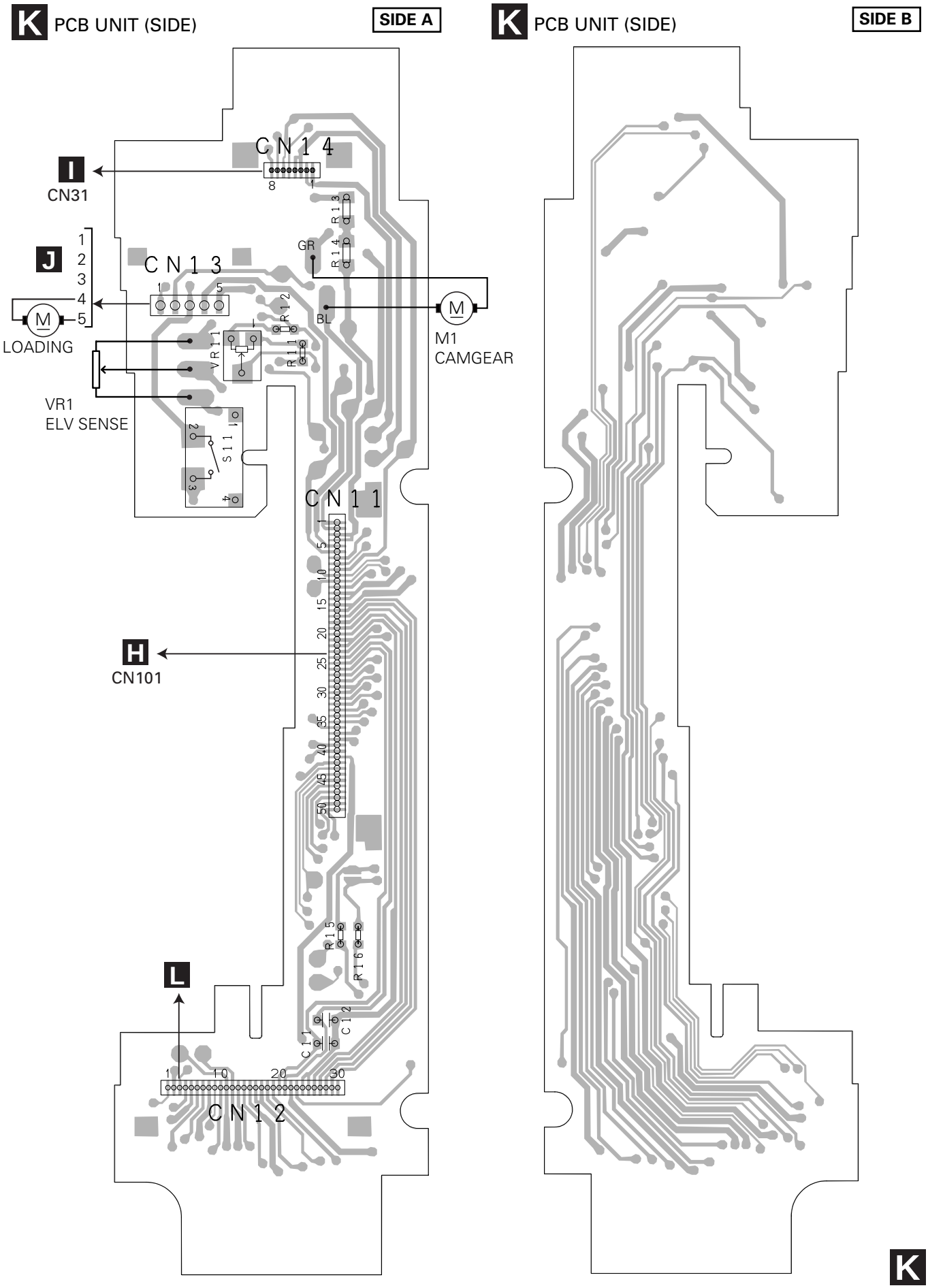
I PCB UNIT (LED)



J PCB UNIT (LOAD)

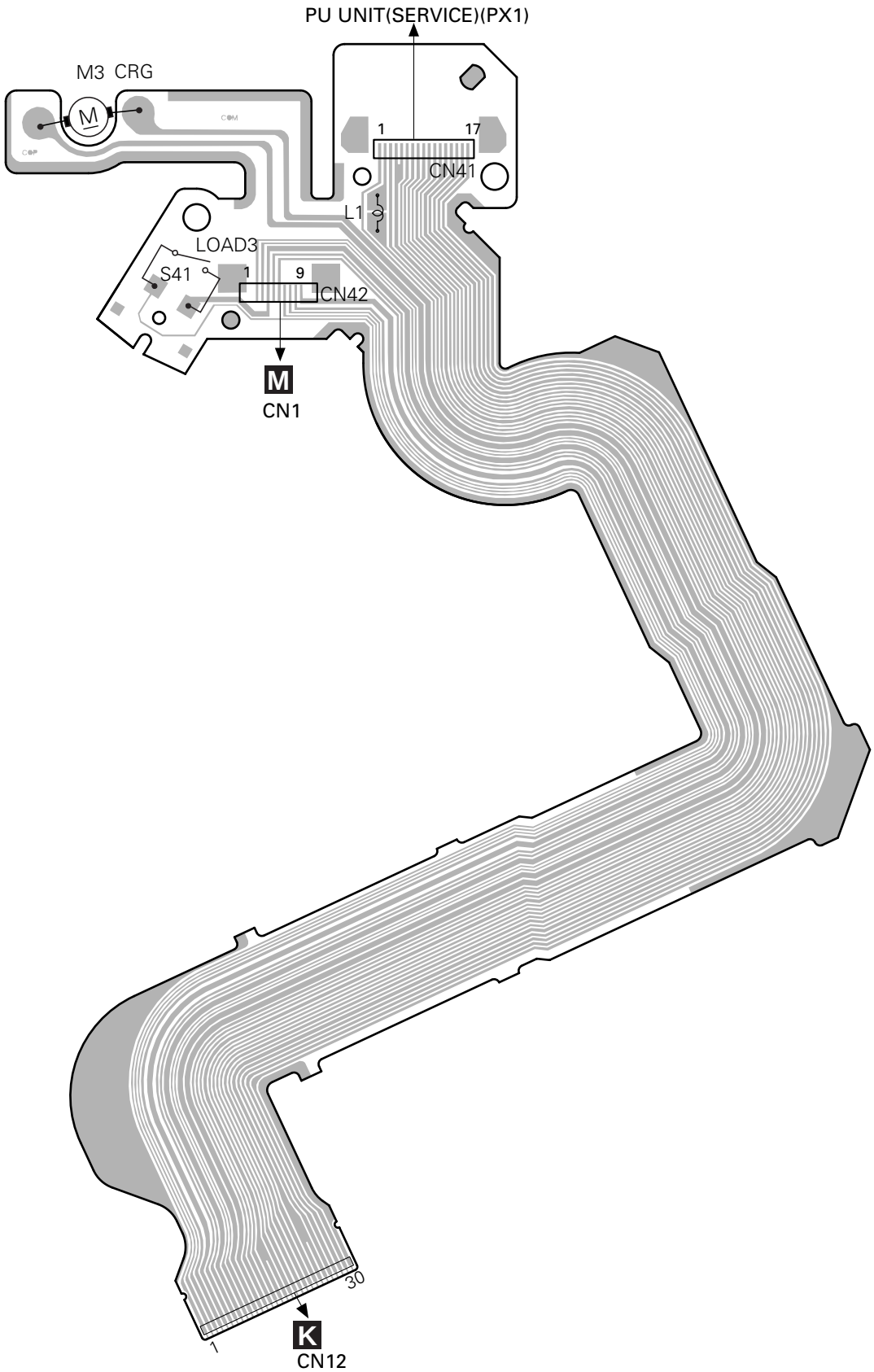


4.10 PCB UNIT(SIDE)



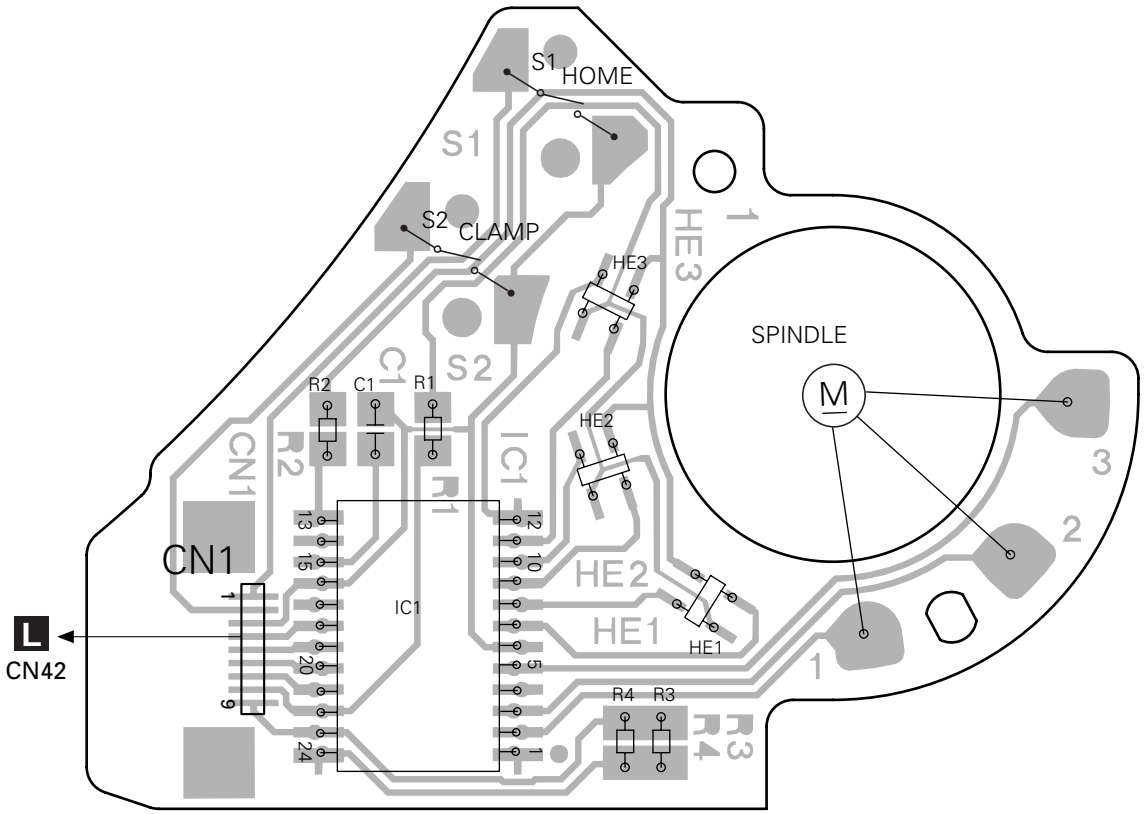
4.11 PCB UNIT

L PCB UNIT



4.12 PCB UNIT(M2 UNIT)

M PCB UNIT(M2 UNIT)



5. ELECTRICAL PARTS LIST

NOTE:

- *Parts whose parts numbers are omitted are subject to being not supplied.*
- *The part numbers shown below indicate chip components.*

Chip Resistor

RS1/◯S◯◯◯J,RS1/◯◯S◯◯◯J

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

A

Unit Number:CWM9102(AVX-MG2037ZF)
Unit Name:Tuner Audio Unit

MISCELLANEOUS

Circuit Symbol and No.	Part Name	Part No.
IC 101	IC	PML011A
IC 151	IC	TC7S66F
IC 201	IC	NJM2068MD
IC 202	IC	NJM2068MD
IC 203	IC	NJM2068MD
IC 204	IC	NJM2068MD
IC 206	IC	NJM2068MD
IC 251	IC	NJM4558V
IC 252	IC	NJM4558V
IC 301	IC	DS36277
IC 302	IC	PCA82C250T
IC 303	IC	BA05SFP
IC 501	IC	PM4006B
IC 601	IC	S-93C56BD0I-J8
IC 602	IC	PD5904D
IC 603	IC	BU2099FV
IC 604	IC	S-80942CNMC-G9C
IC 771	IC	TC7S86FU
IC 772	Photo-interrupter	GP1S94
IC 773	IC	TC7S14FU
IC 901	IC	TK11835M
IC 902	IC	BA6288FS
IC 903	IC	TK11818M
IC 904	IC	S-812C50AMC-C3E
IC 905	IC	PAJ002A
Q 151	Transistor	DTA114EK
Q 201	Transistor	2SC2712
Q 351	Transistor	2SB1185
Q 352	Transistor	IMX1
Q 401	Transistor	2SC2412K
Q 501	Transistor	DTA124EK
Q 602	Transistor	DTC124EU
Q 603	Transistor	DTA124EK
Q 604	Transistor	DTA124EK
Q 701	Transistor	2SC2412K
Q 702	Transistor	2SC2412K
Q 703	Transistor	2SC2412K
Q 704	Transistor	2SC2412K
Q 751	Transistor	IMX1
Q 752	Transistor	2SB1185
Q 753	Transistor	2SB1132
Q 754	Transistor	DTA114EK
Q 771	Transistor	2SB1238
Q 772	Transistor	DTC114EK
Q 801	Transistor	2SA1576
Q 802	Transistor	DTC124EK
Q 803	Transistor	2SA1674
Q 810	Transistor	2SA1576
Q 811	Transistor	DTC124EK
Q 812	Transistor	2SA1674
Q 821	Transistor	2SC2412K
Q 822	Transistor	2SA1162
Q 823	Transistor	2SC2412K
Q 841	Transistor	2SC2412K
Q 842	Transistor	2SC2412K
Q 851	Transistor	DTA114EK
Q 852	Transistor	2SC2412K
Q 853	Transistor	DTC114TK
Q 882	Transistor	2SA1162
Q 883	Transistor	2SC2412K
Q 901	Transistor	2SB1238
Q 902	Transistor	2SB1299
Q 903	Transistor	IMX1
Q 904	Transistor	IMX1
Q 905	Transistor	2SB1185
Q 907	Transistor	IMX1
Q 908	Transistor	DTA124EK
Q 909	Transistor	2SB1185
Q 910	Transistor	IMX1
Q 911	Transistor	2SB1238
Q 912	Transistor	2SB1299
Q 913	Transistor	2SB1185
Q 914	Transistor	IMX1
Q 916	Transistor	DTA124EK
D 101	Diode	HZU3R3(B2)
D 213	Diode	HZS5LL(B)
D 301	Diode	HZS20L(2)
D 302	Diode	HZS20L(2)
D 303	Diode	HZS20L(2)
D 304	Diode	HZS20L(2)
D 351	Diode	HZS9L(A1)
D 352	Diode	MA111
D 701	Diode	UDZ18(B)
D 702	Diode	UDZ18(B)
D 703	Diode	UDZ18(B)
D 704	Diode	UDZ18(B)
D 705	Diode	UDZ18(B)
D 706	Diode	UDZ18(B)
D 707	Diode	UDZ18(B)

Circuit Symbol and No.	Part Name	Part No.
D 708	Diode	UDZ18(B)
D 751	Diode	HZS6L(B2)
D 752	Diode	MA153
D 753	Diode	MA153
D 754	Diode	MA153
D 755	Diode	MA153
D 756	Diode	MA153
D 757	Diode	MA153
D 758	Diode	MA153
D 759	Diode	UDZ10(B)
D 760	Diode	MA153
D 761	Diode	MA153
D 762	Diode	MA153
D 763	Diode	MA153
D 801	Diode	1SS133
D 802	Diode	1SS133
D 810	Diode	1SS133
D 811	Diode	1SS133
D 821	Diode	HZS5LL(C)
D 822	Diode	1SS133
D 823	Diode	HZS7L(B2)
D 841	Diode	HZS6L(B2)
D 842	Diode	MA152WK
D 843	Diode	MA111
D 851	Diode	HZS12L(C1)
D 861	Diode	1SS133
D 862	Diode	1SS133
D 863	Diode	1SS133
D 864	Diode	1SS133
D 871	Diode	1SS133
D 872	Diode	1SS133
D 881	Diode	HZS5LL(C)
D 882	Diode	MA111
D 883	Diode	HZS7L(B2)
D 901	Diode	HZU7R5(B3)
D 902	Diode	RB500V-40
D 903	Diode	HZS5LL(A)
D 904	Diode	HZS18L(3)
D 905	Diode	MA728
D 906	Diode	HZU8R2(B1)
D 907	Diode	MA728
D 908	Diode	UDZ8R2(B)
D 909	Diode	RM4Z-LFJ1
D 921	Diode	ERA15-02VH
D 922	Diode	1SS133
D 923	Diode	1SS133
L 101	Inductor	CTF1379
L 351	Inductor	LCTA2R2J2520
L 403	Inductor	LAU1R0K
L 404	Inductor	LAU1R0K
L 501	Inductor	LAU2R2K
L 502	Inductor	LAU2R2K
L 551	Inductor	LAU1R0K
L 552	Inductor	LAU1R0K
L 601	Chip-Inductor	LCTA2R2J3225
L 602	Inductor	LCTA2R2J2520
L 603	Inductor	CTF1379
L 604	Inductor	CTF1379
L 605	Inductor	CTF1306
L 606	Inductor	CTF1306

Circuit Symbol and No.	Part Name	Part No.
L 701	Inductor	CTF1379
L 751	Inductor	LAU2R2K
L 901	Inductor	CTF1499
L 902	Choke Coil 100µH	CTH1196
L 903	Transformer	CTX1088
L 905	Choke Coil 1.4mH	CTH1129
TH901	Thermistor	CCX1051
X 501	Crystal Resonator 4.332MHz	CSS1056
X 601	Radiator 16MHz	CSS1571
X 602	Radiator 32.768kHz	CSS1319
S 751	Spring Switch(OPEN)	CSN1046
S 752	Spring Switch(CLOSE)	CSN1046
FU901	Fuse 2A	CEK1176
FU902	Fuse 1.75A	CEK1177
FB902	Inductor	CTF1449
FB901	Inductor	CTF1449

RESISTORS

R 102	RS1/16S102J
R 103	RS1/16S103J
R 104	RS1/16S682J
R 106	RS1/16S102J
R 108	RS1/16S101J
R 151	RS1/16S104J
R 152	RS1/16S473J
R 153	RS1/16S473J
R 154	RS1/16S473J
R 155	RS1/16S473J
R 156	RS1/16S104J
R 157	RS1/16S104J
R 158	RS1/16S472J
R 159	RS1/16S472J
R 160	RS1/16S104J
R 161	RS1/16S104J
R 162	RS1/16S472J
R 163	RS1/16S472J
R 164	RS1/16S391J
R 165	RS1/16S912J
R 201	RS1/16S822J
R 202	RS1/16S822J
R 203	RS1/16S472J
R 204	RS1/16S472J
R 205	RS1/16S470J
R 206	RS1/16S470J
R 207	RS1/16S472J
R 208	RS1/16S472J
R 209	RS1/16S470J
R 210	RS1/16S470J
R 211	RS1/16S822J
R 212	RS1/16S822J
R 213	RS1/16S470J
R 214	RS1/16S470J
R 215	RS1/16S472J
R 216	RS1/16S472J
R 217	RS1/16S472J
R 218	RS1/16S472J
R 219	RS1/16S470J
R 220	RS1/16S470J
R 226	RS1/16S822J
R 227	RS1/16S470J

Circuit Symbol and No.	Part Name	Part No.
R 228		RS1/16S472J
R 229		RS1/16S472J
R 230		RS1/16S470J
R 231		RS1/16S102J
R 232		RS1/16S272J
R 233		RS1/16S473J
R 234		RS1/16S473J
R 236		RS1/16S473J
R 237		RS1/16S472J
R 238		RS1/16S472J
R 240		RS1/16S472J
R 251		RS1/16S333J
R 252		RS1/16S333J
R 253		RS1/16S333J
R 254		RS1/16S333J
R 255		RS1/16S333J
R 256		RS1/16S333J
R 257		RS1/16S333J
R 258		RS1/16S333J
R 259		RS1/16S753J
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R 262		RS1/16S753J
R 263		RS1/16S753J
R 264		RS1/16S753J
R 265		RS1/16S753J
R 266		RS1/16S753J
R 301		RS1/16S223J
R 302		RS1/16S472J
R 303		RS1/16S472J
R 304		RS1/16S273J
R 305		RS1/16S472J
R 306		RD1/4PU470J
R 307		RD1/4PU470J
R 308		RS1/16S102J
R 351		RS1/16S223J
R 352		RS1/16S223J
R 353		RS1/16S223J
R 354		RS1/16S332J
R 355		RS1/16S121J
R 356		RS1/16S121J
R 357		RS1/16S221J
R 358		RS1/16S221J
R 359		RS1/16S222J
R 404		RS1/16S473J
R 405		RS1/16S681J
R 406		RS1/16S103J
R 407		RS1/16S681J
R 408		RS1/16S681J
R 409		RS1/16S681J
R 410		RS1/16S473J
R 411		RS1/16S681J
R 412		RS1/16S681J
R 413		RS1/16S272J
R 414		RS1/16S272J
R 415		RS1/16S393J
R 416		RS1/16S162J
R 417		RS1/16S162J
R 418		RS1/16S472J
R 419		RS1/16S473J
R 420		RS1/16S473J
R 424		RS1/16S222J
R 425		RS1/16S473J
R 501		RS1/16S393J
R 503		RS1/16S681J
R 504		RAB4C102J
R 505		RS1/16S102J
R 602		RS1/16S473J
R 603		RS1/16S473J
R 605		RS1/16S102J
R 607		RS1/16S474J
R 608		RS1/16S474J
R 609		RS1/16S474J
R 610		RS1/16S0R0J
R 611		RS1/16S473J
R 612		RS1/16S471J
R 613		RS1/16S102J
R 614		RS1/16S102J
R 615		RAB4C471J
R 619		RS1/16S471J
R 620		RS1/16S471J
R 621		RS1/16S471J
R 622		RAB4C471J
R 623		RS1/16S102J
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R 625		RS1/16S102J
R 626		RAB4C471J
R 627		RS1/16S471J
R 628		RS1/16S474J
R 629		RS1/16S474J
R 630		RS1/16S274J
R 631		RS1/16S274J
R 632		RS1/16S473J
R 633		RS1/16S103J
R 634		RS1/16S102J
R 635		RS1/16S274J
R 636		RS1/16S102J
R 637		RS1/16S274J
R 638		RS1/16S102J
R 640		RS1/16S102J
R 641		RAB4C102J
R 642		RS1/16S102J
R 643		RS1/16S102J
R 644		RS1/16S473J
R 649		RS1/16S0R0J
R 651		RS1/16S124J
R 652		RS1/16S102J
R 653		RS1/16S0R0J
R 654		RS1/16S473J
R 655		RAB4C102J
R 656		RS1/16S473J
R 657		RAB4C102J
R 659		RS1/16S471J
R 661		RS1/16S102J
R 662		RAB4C102J
R 663		RAB4C473J
R 664		RS1/16S472J
R 665		RS1/16S471J
R 666		RS1/16S102J
R 667		RS1/16S102J

Circuit Symbol and No.	Part Name	Part No.
R 668		RAB4C0R0J
R 669		RAB4C102J
R 680		RS1/16S473J
R 681		RS1/16S274J
R 685		RS1/16S102J
R 686		RS1/16S102J
R 688		RS1/16S471J
R 689		RS1/16S471J
R 693		RS1/16S102J
R 701		RS1/16S0R0J
R 702		RS1/16S0R0J
R 703		RS1/16S0R0J
R 704		RS1/16S0R0J
R 705		RS1/16S102J
R 706		RS1/16S102J
R 707		RS1/16S102J
R 708		RS1/16S102J
R 709		RS1/16S223J
R 710		RS1/16S223J
R 711		RS1/16S223J
R 712		RS1/16S223J
R 713		RS1/16S223J
R 714		RS1/16S223J
R 715		RS1/16S223J
R 716		RS1/16S223J
R 751		RS1/16S222J
R 752		RS1/16S222J
R 753		RS1/16S681J
R 754		RS1/16S105J
R 755		RS1/16S821J
R 757		RS1/16S223J
R 758		RS1/16S222J
R 759		RS1/16S222J
R 761		RS1/16S681J
R 762		RS1/16S473J
R 763		RS1/16S681J
R 764		RS1/16S681J
R 771		RS1/16S222J
R 772		RS1/16S222J
R 773		RS1/16S473J
R 774		RS1/16S103J
R 775		RS1/16S103J
R 776		RS1/16S473J
R 777		RS1/16S681J
R 778		RS1/16S681J
R 779		RS1/16S332J
R 801		RS1/16S220J
R 802		RS1/16S103J
R 803		RS1/16S103J
R 804		RS1/16S822J
R 805		RS1/16S103J
R 806		RD1/4PU101J
R 810		RS1/16S220J
R 811		RS1/16S103J
R 812		RS1/16S103J
R 813		RS1/16S822J
R 814		RS1/16S103J
R 815		RD1/4PU101J
R 821		RS1/16S392J
R 822		RS1/16S471J

Circuit Symbol and No.	Part Name	Part No.
R 823		RS1/16S473J
R 824		RS1/16S683J
R 825		RS1/16S473J
R 826		RD1/4PU101J
R 827		RD1/4PU102J
R 828		RS1/16S103J
R 829		RS1/16S471J
R 830		RS1/16S272J
R 832		RS1/16S223J
R 833		RS1/16S223J
R 841		RD1/4PU472J
R 842		RS1/16S222J
R 843		RS1/16S473J
R 844		RS1/16S333J
R 846		RS1/16S473J
R 847		RS1/16S103J
R 848		RS1/16S473J
R 851		RS1/16S473J
R 852		RS1/16S473J
R 853		RS1/16S473J
R 854		RS1/16S104J
R 855		RS1/16S473J
R 856		RS1/16S473J
R 858		RD1/4PU102J
R 860		RS1/16S473J
R 862		RS1/16S103J
R 863		RS1/8S362J
R 864		RD1/4PU471J
R 865		RS1/16S103J
R 866		RS1/8S362J
R 867		RS1/16S273J
R 868		RD1/4PU471J
R 871		RS1/16S102J
R 872		RS1/16S102J
R 873		RS1/16S102J
R 874		RS1/16S102J
R 875		RS1/16S102J
R 876		RS1/16S102J
R 881		RS1/16S392J
R 882		RS1/16S471J
R 883		RS1/16S473J
R 884		RS1/16S683J
R 885		RS1/16S473J
R 886		RD1/4PU101J
R 887		RS1/16S102J
R 888		RS1/16S103J
R 889		RS1/16S471J
R 890		RS1/16S102J
R 901		RS1/10S470J
R 902		RS1/10SR68J
R 903		RN1/10SK3903D
R 904		RS1/10S511J
R 905		RS1/10S151J
R 906		RN1/10SE3302D
R 907		RN1/10SK4303D
R 908		RS1/16S681J
R 909		RS1/16S621J
R 910		RS1/16S333J
R 911		RS1/16S471J
R 912		RS1/16S471J

Circuit Symbol and No.	Part Name	Part No.
R 913		RS1/16S471J
R 914		RS1/10S122J
R 915		RS1/16S223J
R 916		RS1/16S223J
R 917		RS1/16S332J
R 918		RS1/16S332J
R 919		RS1/10S102J
R 920		RS1/16S222J
R 921		RS1/16S472J
R 922		RS1/10S471J
R 923		RS1/16S821J
R 924		RS1/16S821J
R 925		RS1/10S681J
R 926		RS1/16S511J
R 927		RS1/16S223J
R 928		RS1/16S511J
R 929		RS1/16S472J
R 930		RS1/16S332J
R 931		RS1/16S124J
R 932		RS1/16S511J
R 933		RS1/16S102J
R 934		RD1/4PU2R2J
R 935		RD1/4PU2R2J
R 936		RS1/16S222J
R 937		RS1/16S911J
R 938		RS1/16S511J
R 939		RS1/16S223J
R 940		RS1/16S511J
R 941		RS1/16S224J
R 942		RS1/16S104J
R 943		RS1/16S511J
R 944		RS1/16S822J
R 945		RS1/16S332J
R 946		RS1/16S274J
R 947		RS1/16S104J
R 948		RS1/16S0R0J
R 949		RS1/16S0R0J
R 950		RS1/16S911J
R 951		RS1/16S102J
R 952		RS1/16S153J
R 953		RS1/16S332J
R 954		RS1/16S471J
R 955		RS1/4SA101J
R 956		RS1/16S0R0J
R 957		RS1/16S222J

CAPACITORS

Circuit Symbol and No.	Part Name	Part No.
C 101		CKSQYB225K10
C 102		CKSQYB225K10
C 103		CKSQYB225K10
C 104		CKSQYB225K10
C 105		CKSRYB224K16
C 106		CKSRYB224K16
C 107		CKSRYB474K10
C 108		CKSRYB474K10
C 109		CKSRYB104K16
C 110		CKSYB106K6R3
C 111		CKSYB106K6R3
C 112		CKSRYB105K10
C 113		CKSRYB104K16
C 114		CCSRCH101J50
C 116		CCSRCH101J50
C 117		CKSYB106K6R3
C 118		CKSYB106K6R3
C 120		CKSYB106K6R3
C 121		CKSRYB472K50
C 122		CKSRYB472K50
C 123		CCSRCH471J50
C 124		CCSRCH471J50
C 125		CKSRYB473K50
C 126		CCSRCH101J50
C 151		CKSRYB103K50
C 152		CKSYB106K6R3
C 153		CKSYB106K6R3
C 154		CKSRYB105K10
C 155		CKSRYB222K50
C 156		CKSRYB105K10
C 201		CCSRCH101J50
C 202		CCSRCH101J50
C 203		CCSRCH101J50
C 204		CCSRCH101J50
C 207		CKSRYB102K50
C 208		CKSRYB102K50
C 209		CKSRYB102K50
C 210		CKSRYB102K50
C 213		CCSRCH101J50
C 214		CCSRCH101J50
C 215		CCSRCH101J50
C 216		CCSRCH101J50
C 219		CKSRYB102K50
C 220		CKSRYB102K50
C 221		CKSRYB102K50
C 222		CKSRYB102K50
C 231		CCSRCH101J50
C 232		CCSRCH101J50
C 233		CCSRCH101J50
C 234		CKSRYB102K50
C 235		CKSRYB102K50
C 236		CCSRCH101J50
C 237		CEAT331M6R3
C 238		CEAL100M16
C 239		CCSRCH101J50
C 251		CCSRCH470J50
C 252		CCSRCH470J50
C 253		CCSRCH470J50
C 254		CCSRCH470J50
C 255		CCSRCH470J50
C 256		CCSRCH470J50
C 257		CCSRCH470J50
C 258		CCSRCH470J50
C 259	10µF	CCG1138
C 260	10µF	CCG1138
C 261	10µF	CCG1138
C 262	10µF	CCG1138
C 263	10µF	CCG1138
C 264	10µF	CCG1138
C 265		CKSRYB105K10
C 266		CKSRYB105K10
C 301		CKSRYB223K50
C 302		CEAL100M16

Circuit Symbol and No.	Part Name	Part No.
C 303		CEAL220M10
C 304		CKSRYB222K50
C 305		CKSRYB222K50
C 306		CCSQCH101J50
C 307		CCSRCH181J50
C 308		CCSQCH101J50
C 309		CCSRCH181J50
C 351		CKSRYB102K50
C 352		CEJQ101M16
C 353		CKSRYB104K16
C 354		CEAL100M16
C 355		CASA4R7M16
C 357		CKSRYB105K6R3
C 358		CKSYB106K6R3
C 405		CKSRYB103K50
C 406		CKSRYB183K50
C 407		CKSRYB183K50
C 408		CEJQ101M6R3
C 409		CKSRYB103K50
C 410		CEJQ101M16
C 411		CKSRYB472K50
C 412		CKSRYB103K50
C 421		CKSRYB683K16
C 501		CEAL100M16
C 502		CKSRYB104K16
C 503		CKSYB106K6R3
C 504		CKSRYB104K16
C 505		CKSRYB105K10
C 506		CKSRYB104K16
C 507		CKSRYB472K50
C 508		CCSRCH220J50
C 509		CCSRCH220J50
C 551		CKSRYB102K50
C 552		CKSRYB102K50
C 601		CKSRYB104K16
C 602		CCSRCH180J50
C 603		CKSYB106K6R3
C 604		CCSRCH101J50
C 605		CCSRCH180J50
C 607		CCSRCH220J50
C 608		CCSRCH180J50
C 609		CKSRYB104K16
C 610		CKSRYB102K50
C 611		CKSRYB103K50
C 612		CKSRYB103K50
C 613		CKSRYB103K50
C 614		CKSRYB102K50
C 615		CKSRYB102K50
C 616		CKSRYB104K16
C 617		CKSRYB104K16
C 618		CCSRCH101J50
C 619		CKSRYB104K16
C 620		CCSRCH101J50
C 702		CKSRYB103K50
C 703		CEAL470M10
C 704		CKSYB475K10
C 705		CKSYB475K10
C 706		CKSYB475K10
C 707		CKSYB475K10
C 751		CKSRYB104K16

Circuit Symbol and No.	Part Name	Part No.
C 752		CKSRYB104K16
C 771		CCSRCH681J50
C 772		CCSRCH681J50
C 801		CKSRYB103K50
C 810		CKSRYB103K50
C 811		CCSRCH101J50
C 841		CCSRCH221J50
C 842		CKSRYB103K50
C 852		CKSRYB102K50
C 853		CCSRCH181J50
C 861		CKSRYB473K50
C 862		CKSRYB473K50
C 871		CKSRYB103K50
C 881		CKSRYB224K16
C 901		CKSRYB105K10
C 902		CASA470M20
C 903		CKSRYB102K50
C 904		CKSRYB104K25
C 905		CKSRYB104K16
C 906		CKSRYB105K10
C 907		CEHAR470M16
C 908		CEJQ470M10
C 909		CEHAT331M10
C 910		CCSRCH101J50
C 911		CKSRYB102K50
C 912		CKSQYB104K25
C 913		CEJQ4R7M35
C 914		CCSRCH101J50
C 915		CKSRYB104K16
C 916		CEJQ100M25
C 917		CKSRYB102K50
C 918		CEHAT331M10
C 919		CKSRYB223K50
C 920		CKSRYB104K25
C 921		CEJQ220M10
C 922		CASA330M10
C 923		CKSRYB103K50
C 924		CEJQ470M6R3
C 925	470µF/6.3V	CCH1182
C 926	100µF/10V	CCH1323
C 927		CKSRYB103K50
C 928		CKSRYB105K10
C 929		CEHAR101M10
C 930	3300µF/16V	CCH1163(P35)
C 931		CKSRYB103K50
C 932		CKSRYB104K25
C 933		CKSRYB153K50
C 934		CKSYB105K16
C 937		CEAT102M16(P35)
C 938		CKSRYB103K50
C 939		CKSRYB103K50
C 940	0.1F/5.5V	CCL1023
C 941		CKSRYB473K50
C 942		CKSRYB104K25
C 943		CKSYB105K16
C 944		CCSRCH102J50

A

Unit Number:CWM9103(AVX-MG2137ZF)
Unit Name:Tuner Audio Unit

MISCELLANEOUS

Circuit Symbol and No.	Part Name	Part No.
IC 101	IC	PML011A
IC 151	IC	TC7S66F
IC 201	IC	NJM2068MD
IC 202	IC	NJM2068MD
IC 203	IC	NJM2068MD
IC 204	IC	NJM2068MD
IC 206	IC	NJM2068MD
IC 251	IC	NJM4558V
IC 252	IC	NJM4558V
IC 301	IC	DS36277
IC 302	IC	PCA82C250T
IC 303	IC	BA05SFP
IC 501	IC	PM4006B
IC 601	IC	S-93C56BD0I-J8
IC 602	IC	PD5904D
IC 603	IC	BU2099FV
IC 604	IC	S-80942CNMC-G9C
IC 771	IC	TC7S86FU
IC 772	Photo-interrupter	GP1S94
IC 773	IC	TC7S14FU
IC 901	IC	TK11835M
IC 902	IC	BA6288FS
IC 903	IC	TK11818M
IC 904	IC	S-812C50AMC-C3E
IC 905	IC	PAJ002A
Q 151	Transistor	DTA114EK
Q 201	Transistor	2SC2712
Q 351	Transistor	2SB1185
Q 352	Transistor	IMX1
Q 401	Transistor	2SC2412K
Q 501	Transistor	DTA124EK
Q 602	Transistor	DTC124EU
Q 603	Transistor	DTA124EK
Q 604	Transistor	DTA124EK
Q 701	Transistor	2SC2412K
Q 702	Transistor	2SC2412K
Q 703	Transistor	2SC2412K
Q 704	Transistor	2SC2412K
Q 751	Transistor	IMX1
Q 752	Transistor	2SB1185
Q 753	Transistor	2SB1132
Q 754	Transistor	DTA114EK
Q 771	Transistor	2SB1238
Q 772	Transistor	DTC114EK
Q 810	Transistor	2SA1576
Q 811	Transistor	DTC124EK
Q 812	Transistor	2SA1674
Q 821	Transistor	2SC2412K
Q 822	Transistor	2SA1162
Q 823	Transistor	2SC2412K
Q 841	Transistor	2SC2412K
Q 842	Transistor	2SC2412K
Q 851	Transistor	DTA114EK
Q 852	Transistor	2SC2412K
Q 853	Transistor	DTC114TK
Q 883	Transistor	2SC2412K
Q 901	Transistor	2SB1238
Q 902	Transistor	2SB1299
Q 903	Transistor	IMX1
Q 904	Transistor	IMX1
Q 905	Transistor	2SB1185
Q 907	Transistor	IMX1
Q 908	Transistor	DTA124EK
Q 909	Transistor	2SB1185
Q 910	Transistor	IMX1
Q 911	Transistor	2SB1238
Q 912	Transistor	2SB1299
Q 913	Transistor	2SB1185
Q 914	Transistor	IMX1
Q 916	Transistor	DTA124EK
D 101	Diode	HZU3R3(B2)
D 213	Diode	HZS5LL(B)
D 301	Diode	HZS20L(2)
D 302	Diode	HZS20L(2)
D 303	Diode	HZS20L(2)
D 304	Diode	HZS20L(2)
D 351	Diode	HZS9L(A1)
D 352	Diode	MA111
D 701	Diode	UDZ18(B)
D 702	Diode	UDZ18(B)
D 703	Diode	UDZ18(B)
D 704	Diode	UDZ18(B)
D 705	Diode	UDZ18(B)
D 706	Diode	UDZ18(B)
D 707	Diode	UDZ18(B)
D 708	Diode	UDZ18(B)
D 751	Diode	HZS6L(B2)
D 752	Diode	MA153
D 753	Diode	MA153
D 754	Diode	MA153
D 755	Diode	MA153
D 756	Diode	MA153
D 757	Diode	MA153
D 758	Diode	MA153
D 759	Diode	UDZ10(B)
D 760	Diode	MA153
D 761	Diode	MA153
D 762	Diode	MA153
D 763	Diode	MA153
D 810	Diode	1SS133
D 811	Diode	1SS133
D 821	Diode	HZS5LL(C)
D 822	Diode	1SS133
D 823	Diode	HZS7L(B2)
D 841	Diode	HZS6L(B2)
D 842	Diode	MA152WK
D 843	Diode	MA111
D 851	Diode	HZS12L(C1)
D 861	Diode	1SS133
D 862	Diode	1SS133
D 863	Diode	1SS133
D 864	Diode	1SS133
D 871	Diode	1SS133
D 872	Diode	1SS133
D 883	Diode	HZS7L(B2)

Circuit Symbol and No.	Part Name	Part No.
D 901	Diode	HZU7R5(B3)
D 902	Diode	RB500V-40
D 903	Diode	HZS5LL(A)
D 904	Diode	HZS18L(3)
D 905	Diode	MA728
D 906	Diode	HZU8R2(B1)
D 907	Diode	MA728
D 908	Diode	UDZ8R2(B)
D 909	Diode	RM4Z-LFJ1
D 921	Diode	ERA15-02VH
D 922	Diode	1SS133
D 923	Diode	1SS133
L 101	Inductor	CTF1379
L 351	Inductor	LCTA2R2J2520
L 403	Inductor	LAU1R0K
L 404	Inductor	LAU1R0K
L 501	Inductor	LAU2R2K
L 502	Inductor	LAU2R2K
L 551	Inductor	LAU1R0K
L 552	Inductor	LAU1R0K
L 601	Chip-Inductor	LCTA2R2J3225
L 602	Inductor	LCTA2R2J2520
L 603	Inductor	CTF1379
L 604	Inductor	CTF1379
L 605	Inductor	CTF1306
L 606	Inductor	CTF1306
L 701	Inductor	CTF1379
L 751	Inductor	LAU2R2K
L 901	Inductor	CTF1499
L 902	Choke Coil 100µH	CTH1196
L 903	Transformer	CTX1088
L 905	Choke Coil 1.4mH	CTH1129
TH901	Thermistor	CCX1051
X 501	Crystal Resonator 4.332MHz	CSS1056
X 601	Radiator 16MHz	CSS1571
X 602	Radiator 32.768kHz	CSS1319
S 751	Spring Switch(OPEN)	CSN1046
S 752	Spring Switch(CLOSE)	CSN1046
FU901	Fuse 2A	CEK1176
FU902	Fuse 1.75A	CEK1177
FB901	Inductor	CTF1449
FB902	Inductor	CTF1449

RESISTORS

Circuit Symbol and No.	Part Name	Part No.
R 102		RS1/16S102J
R 103		RS1/16S103J
R 104		RS1/16S682J
R 106		RS1/16S102J
R 108		RS1/16S101J
R 151		RS1/16S104J
R 152		RS1/16S473J
R 153		RS1/16S473J
R 154		RS1/16S473J
R 155		RS1/16S473J
R 156		RS1/16S104J
R 157		RS1/16S104J
R 158		RS1/16S332J
R 159		RS1/16S332J
R 160		RS1/16S683J
R 161		RS1/16S683J
R 162		RS1/16S472J
R 163		RS1/16S472J
R 164		RS1/16S391J
R 165		RS1/16S912J
R 201		RS1/16S562J
R 202		RS1/16S562J
R 203		RS1/16S472J
R 204		RS1/16S472J
R 205		RS1/16S470J
R 206		RS1/16S470J
R 207		RS1/16S472J
R 208		RS1/16S472J
R 209		RS1/16S470J
R 210		RS1/16S470J
R 211		RS1/16S562J
R 212		RS1/16S562J
R 213		RS1/16S470J
R 214		RS1/16S470J
R 215		RS1/16S472J
R 216		RS1/16S472J
R 217		RS1/16S472J
R 218		RS1/16S472J
R 219		RS1/16S470J
R 220		RS1/16S470J
R 226		RS1/16S562J
R 227		RS1/16S470J
R 228		RS1/16S472J
R 229		RS1/16S472J
R 230		RS1/16S470J
R 231		RS1/16S102J
R 232		RS1/16S272J
R 233		RS1/16S473J
R 234		RS1/16S473J
R 236		RS1/16S473J
R 237		RS1/16S472J
R 238		RS1/16S472J
R 240		RS1/16S472J
R 251		RS1/16S333J
R 252		RS1/16S333J
R 253		RS1/16S333J
R 254		RS1/16S333J
R 255		RS1/16S333J
R 256		RS1/16S333J
R 257		RS1/16S333J
R 258		RS1/16S333J
R 259		RS1/16S753J
R 260		RS1/16S753J
R 261		RS1/16S753J
R 262		RS1/16S753J
R 263		RS1/16S753J
R 264		RS1/16S753J
R 265		RS1/16S753J
R 266		RS1/16S753J
R 301		RS1/16S223J
R 302		RS1/16S472J
R 303		RS1/16S472J
R 304		RS1/16S273J
R 305		RS1/16S472J
R 306		RD1/4PU470J
R 307		RD1/4PU470J

Circuit Symbol and No.	Part Name	Part No.
R 308		RS1/16S102J
R 351		RS1/16S223J
R 352		RS1/16S223J
R 353		RS1/16S223J
R 354		RS1/16S332J
R 355		RS1/16S121J
R 356		RS1/16S121J
R 357		RS1/16S221J
R 358		RS1/16S221J
R 359		RS1/16S222J
R 404		RS1/16S473J
R 405		RS1/16S681J
R 406		RS1/16S103J
R 407		RS1/16S681J
R 408		RS1/16S681J
R 409		RS1/16S681J
R 410		RS1/16S473J
R 411		RS1/16S681J
R 412		RS1/16S681J
R 413		RS1/16S272J
R 414		RS1/16S272J
R 415		RS1/16S393J
R 416		RS1/16S162J
R 417		RS1/16S162J
R 418		RS1/16S472J
R 419		RS1/16S473J
R 420		RS1/16S473J
R 424		RS1/16S222J
R 425		RS1/16S473J
R 501		RS1/16S393J
R 503		RS1/16S681J
R 504		RAB4C102J
R 505		RS1/16S102J
R 602		RS1/16S473J
R 603		RS1/16S473J
R 605		RS1/16S102J
R 607		RS1/16S474J
R 608		RS1/16S474J
R 609		RS1/16S474J
R 610		RS1/16S0R0J
R 611		RS1/16S473J
R 612		RS1/16S471J
R 613		RS1/16S102J
R 614		RS1/16S102J
R 615		RAB4C471J
R 619		RS1/16S471J
R 620		RS1/16S471J
R 621		RS1/16S471J
R 622		RAB4C471J
R 623		RS1/16S102J
R 624		RS1/16S102J
R 625		RS1/16S102J
R 626		RAB4C471J
R 627		RS1/16S471J
R 628		RS1/16S474J
R 629		RS1/16S474J
R 631		RS1/16S473J
R 632		RS1/16S473J
R 633		RS1/16S103J
R 634		RS1/16S102J

Circuit Symbol and No.	Part Name	Part No.
R 635		RS1/16S274J
R 636		RS1/16S102J
R 637		RS1/16S274J
R 638		RS1/16S102J
R 640		RS1/16S102J
R 641		RAB4C102J
R 642		RS1/16S102J
R 643		RS1/16S102J
R 644		RS1/16S473J
R 649		RS1/16S0R0J
R 651		RS1/16S124J
R 652		RS1/16S102J
R 653		RS1/16S0R0J
R 654		RS1/16S473J
R 655		RAB4C102J
R 656		RS1/16S473J
R 657		RAB4C102J
R 659		RS1/16S471J
R 661		RS1/16S102J
R 662		RAB4C102J
R 663		RAB4C473J
R 664		RS1/16S472J
R 665		RS1/16S471J
R 666		RS1/16S102J
R 667		RS1/16S102J
R 668		RAB4C0R0J
R 669		RAB4C102J
R 680		RS1/16S473J
R 681		RS1/16S274J
R 685		RS1/16S102J
R 686		RS1/16S102J
R 688		RS1/16S471J
R 689		RS1/16S471J
R 693		RS1/16S102J
R 701		RS1/16S0R0J
R 702		RS1/16S0R0J
R 703		RS1/16S0R0J
R 704		RS1/16S0R0J
R 705		RS1/16S102J
R 706		RS1/16S102J
R 707		RS1/16S102J
R 708		RS1/16S102J
R 709		RS1/16S223J
R 710		RS1/16S223J
R 711		RS1/16S223J
R 712		RS1/16S223J
R 713		RS1/16S223J
R 714		RS1/16S223J
R 715		RS1/16S223J
R 716		RS1/16S223J
R 751		RS1/16S222J
R 752		RS1/16S222J
R 753		RS1/16S681J
R 754		RS1/16S105J
R 755		RS1/16S821J
R 757		RS1/16S223J
R 758		RS1/16S222J
R 759		RS1/16S222J
R 761		RS1/16S681J
R 762		RS1/16S473J

Circuit Symbol and No.	Part Name	Part No.
R 763		RS1/16S681J
R 764		RS1/16S681J
R 771		RS1/16S222J
R 772		RS1/16S222J
R 773		RS1/16S473J
R 774		RS1/16S103J
R 775		RS1/16S103J
R 776		RS1/16S473J
R 777		RS1/16S681J
R 778		RS1/16S681J
R 779		RS1/16S332J
R 810		RS1/16S220J
R 811		RS1/16S103J
R 812		RS1/16S103J
R 813		RS1/16S822J
R 814		RS1/16S103J
R 815		RD1/4PU101J
R 821		RS1/16S822J
R 822		RS1/16S471J
R 823		RS1/16S473J
R 824		RS1/16S104J
R 825		RS1/16S473J
R 826		RD1/4PU101J
R 827		RD1/4PU102J
R 828		RS1/16S103J
R 829		RS1/16S471J
R 830		RS1/16S393J
R 832		RS1/16S223J
R 833		RS1/16S223J
R 841		RD1/4PU472J
R 842		RS1/16S222J
R 843		RS1/16S473J
R 844		RS1/16S333J
R 846		RS1/16S473J
R 847		RS1/16S103J
R 848		RS1/16S473J
R 851		RS1/16S473J
R 852		RS1/16S473J
R 853		RS1/16S473J
R 854		RS1/16S104J
R 855		RS1/16S473J
R 856		RS1/16S473J
R 858		RD1/4PU102J
R 860		RS1/16S473J
R 862		RS1/16S103J
R 863		RS1/8S362J
R 864		RD1/4PU471J
R 865		RS1/16S103J
R 866		RS1/8S362J
R 867		RS1/16S273J
R 868		RD1/4PU471J
R 871		RS1/16S102J
R 872		RS1/16S102J
R 873		RS1/16S102J
R 874		RS1/16S102J
R 875		RS1/16S102J
R 876		RS1/16S102J
R 883		RS1/16S473J
R 884		RS1/16S683J
R 885		RS1/16S473J

Circuit Symbol and No.	Part Name	Part No.
R 887		RS1/16S102J
R 888		RS1/16S103J
R 890		RS1/16S102J
R 901		RS1/10S470J
R 902		RS1/10SR68J
R 903		RN1/10SK3903D
R 904		RS1/10S511J
R 905		RS1/10S151J
R 906		RN1/10SE3302D
R 907		RN1/10SK4303D
R 908		RS1/16S681J
R 909		RS1/16S621J
R 910		RS1/16S333J
R 911		RS1/16S471J
R 912		RS1/16S471J
R 913		RS1/16S471J
R 914		RS1/10S122J
R 915		RS1/16S223J
R 916		RS1/16S223J
R 917		RS1/16S332J
R 918		RS1/16S332J
R 919		RS1/10S102J
R 920		RS1/16S222J
R 921		RS1/16S472J
R 922		RS1/10S471J
R 923		RS1/16S821J
R 924		RS1/16S821J
R 925		RS1/10S681J
R 926		RS1/16S511J
R 927		RS1/16S223J
R 928		RS1/16S511J
R 929		RS1/16S472J
R 930		RS1/16S332J
R 931		RS1/16S124J
R 932		RS1/16S511J
R 933		RS1/16S102J
R 934		RD1/4PU2R2J
R 935		RD1/4PU2R2J
R 936		RS1/16S222J
R 937		RS1/16S911J
R 938		RS1/16S511J
R 939		RS1/16S223J
R 940		RS1/16S511J
R 941		RS1/16S224J
R 942		RS1/16S104J
R 943		RS1/16S511J
R 944		RS1/16S822J
R 945		RS1/16S332J
R 946		RS1/16S274J
R 947		RS1/16S104J
R 948		RS1/16S0R0J
R 949		RS1/16S0R0J
R 950		RS1/16S911J
R 951		RS1/16S102J
R 952		RS1/16S153J
R 953		RS1/16S332J
R 954		RS1/16S471J
R 955		RS1/4SA101J
R 956		RS1/16S0R0J
R 957		RS1/16S222J

CAPACITORS

Circuit Symbol and No.	Part Name	Part No.
C 101		CKSQYB225K10
C 102		CKSQYB225K10
C 103		CKSQYB225K10
C 104		CKSQYB225K10
C 105		CKSRYB224K16
C 106		CKSRYB224K16
C 107		CKSRYB474K10
C 108		CKSRYB474K10
C 109		CKSRYB104K16
C 110		CKSYB106K6R3
C 111		CKSYB106K6R3
C 112		CKSRYB105K10
C 113		CKSRYB104K16
C 114		CCSRCH101J50
C 116		CCSRCH101J50
C 117		CKSYB106K6R3
C 118		CKSYB106K6R3
C 120		CKSYB106K6R3
C 121		CKSRYB472K50
C 122		CKSRYB472K50
C 123		CCSRCH471J50
C 124		CCSRCH471J50
C 125		CKSRYB473K50
C 126		CCSRCH101J50
C 151		CKSRYB103K50
C 152		CKSYB106K6R3
C 153		CKSYB106K6R3
C 154		CKSRYB105K10
C 155		CKSRYB222K50
C 156		CKSRYB105K10
C 201		CCSRCH101J50
C 202		CCSRCH101J50
C 203		CCSRCH101J50
C 204		CCSRCH101J50
C 207		CKSRYB102K50
C 208		CKSRYB102K50
C 209		CKSRYB102K50
C 210		CKSRYB102K50
C 213		CCSRCH101J50
C 214		CCSRCH101J50
C 215		CCSRCH101J50
C 216		CCSRCH101J50
C 219		CKSRYB102K50
C 220		CKSRYB102K50
C 221		CKSRYB102K50
C 222		CKSRYB102K50
C 231		CCSRCH101J50
C 232		CCSRCH101J50
C 233		CCSRCH101J50
C 234		CKSRYB102K50
C 235		CKSRYB102K50
C 236		CCSRCH101J50
C 237		CEAT331M6R3
C 238		CEAL100M16
C 239		CCSRCH101J50
C 251		CCSRCH470J50
C 252		CCSRCH470J50
C 253		CCSRCH470J50
C 254		CCSRCH470J50
C 255		CCSRCH470J50
C 256		CCSRCH470J50
C 257		CCSRCH470J50
C 258		CCSRCH470J50
C 259	10µF	CCG1138
C 260	10µF	CCG1138
C 261	10µF	CCG1138
C 262	10µF	CCG1138
C 263	10µF	CCG1138
C 264	10µF	CCG1138
C 265		CKSRYB105K10
C 266		CKSRYB105K10
C 301		CKSRYB223K50
C 302		CEAL100M16
C 303		CEAL220M10
C 304		CKSRYB222K50
C 305		CKSRYB222K50
C 306		CCSQCH101J50
C 307		CCSRCH181J50
C 308		CCSQCH101J50
C 309		CCSRCH181J50
C 351		CKSRYB102K50
C 352		CEJQ101M16
C 353		CKSRYB104K16
C 354		CEAL100M16
C 355		CASA4R7M16
C 357		CKSRYB105K6R3
C 358		CKSYB106K6R3
C 405		CKSRYB103K50
C 406		CKSRYB183K50
C 407		CKSRYB183K50
C 408		CEJQ101M6R3
C 409		CKSRYB103K50
C 410		CEJQ101M16
C 411		CKSRYB472K50
C 412		CKSRYB103K50
C 421		CKSRYB474K10
C 501		CEAL100M16
C 502		CKSRYB104K16
C 503		CKSYB106K6R3
C 504		CKSRYB104K16
C 505		CKSRYB105K10
C 506		CKSRYB104K16
C 507		CKSRYB472K50
C 508		CCSRCH220J50
C 509		CCSRCH220J50
C 551		CKSRYB102K50
C 552		CKSRYB102K50
C 601		CKSRYB104K16
C 602		CCSRCH180J50
C 603		CKSYB106K6R3
C 604		CCSRCH101J50
C 605		CCSRCH180J50
C 607		CCSRCH220J50
C 608		CCSRCH180J50
C 609		CKSRYB104K16
C 610		CKSRYB102K50
C 611		CKSRYB103K50
C 612		CKSRYB103K50

Circuit Symbol and No.	Part Name	Part No.
C 613		CKSRYB103K50
C 614		CKSRYB102K50
C 615		CKSRYB102K50
C 616		CKSRYB104K16
C 617		CKSRYB104K16
C 618		CCSRCH101J50
C 619		CKSRYB104K16
C 620		CCSRCH101J50
C 702		CKSRYB103K50
C 703		CEAL470M10
C 704		CKSYB475K10
C 705		CKSYB475K10
C 706		CKSYB475K10
C 707		CKSYB475K10
C 751		CKSRYB104K16
C 752		CKSRYB104K16
C 771		CCSRCH681J50
C 772		CCSRCH681J50
C 810		CKSRYB103K50
C 811		CCSRCH101J50
C 841		CCSRCH221J50
C 842		CKSRYB103K50
C 852		CKSRYB102K50
C 853		CCSRCH181J50
C 861		CKSRYB473K50
C 862		CKSRYB473K50
C 871		CKSRYB103K50
C 881		CKSRYB224K16
C 901		CKSRYB105K10
C 902		CASA470M20
C 903		CKSRYB102K50
C 904		CKSRYB104K25
C 905		CKSRYB104K16
C 906		CKSRYB105K10
C 907		CEHAR470M16
C 908		CEJQ470M10
C 909		CEHAT331M10
C 910		CCSRCH101J50
C 911		CKSRYB102K50
C 912		CKSQYB104K25
C 913		CEJQ4R7M35
C 914		CCSRCH101J50
C 915		CKSRYB104K16
C 916		CEJQ100M25
C 917		CKSRYB102K50
C 918		CEHAT331M10
C 919		CKSRYB223K50
C 920		CKSRYB104K25
C 921		CEJQ220M10
C 922		CASA330M10
C 923		CKSRYB103K50
C 924		CEJQ470M6R3
C 925	470µF/6.3V	CCH1182
C 926	100µF/10V	CCH1323
C 927		CKSRYB103K50
C 928		CKSRYB105K10
C 929		CEHAR101M10
C 930	3300µF/16V	CCH1163(P35)
C 931		CKSRYB103K50
C 932		CKSRYB104K25

Circuit Symbol and No.	Part Name	Part No.
C 933		CKSRYB153K50
C 934		CKSYB105K16
C 937		CEAT102M16(P35)
C 938		CKSRYB103K50
C 939		CKSRYB103K50
C 940	0.1F/5.5V	CCL1023
C 941		CKSRYB473K50
C 942		CKSRYB104K25
C 943		CKSYB105K16
C 944		CCSRCH102J50

A

Unit Number:CWM9104(AVX-MG2237ZF)
Unit Name:Tuner Audio Unit

MISCELLANEOUS

IC 101	IC	PML011A
IC 151	IC	TC7S66F
IC 201	IC	NJM2068MD
IC 202	IC	NJM2068MD
IC 203	IC	NJM2068MD
IC 204	IC	NJM2068MD
IC 206	IC	NJM2068MD
IC 251	IC	NJM4558V
IC 252	IC	NJM4558V
IC 301	IC	DS36277
IC 302	IC	PCA82C250T
IC 303	IC	BA05SFP
IC 501	IC	PM4006B
IC 601	IC	S-93C56BD0I-J8
IC 602	IC	PD5904D
IC 603	IC	BU2099FV
IC 604	IC	S-80942CNMC-G9C
IC 771	IC	TC7S86FU
IC 772	Photo-interrupter	GP1S94
IC 773	IC	TC7S14FU
IC 901	IC	TK11835M
IC 902	IC	BA6288FS
IC 903	IC	TK11818M
IC 904	IC	S-812C50AMC-C3E
IC 905	IC	PAJ002A
Q 151	Transistor	DTA114EK
Q 201	Transistor	2SC2712
Q 351	Transistor	2SB1185
Q 352	Transistor	IMX1
Q 401	Transistor	2SC2412K
Q 501	Transistor	DTA124EK
Q 602	Transistor	DTC124EU
Q 603	Transistor	DTA124EK
Q 604	Transistor	DTA124EK
Q 701	Transistor	2SC2412K
Q 702	Transistor	2SC2412K
Q 703	Transistor	2SC2412K
Q 704	Transistor	2SC2412K
Q 751	Transistor	IMX1
Q 752	Transistor	2SB1185
Q 753	Transistor	2SB1132

Circuit Symbol and No.	Part Name	Part No.
Q 771	Transistor	2SB1238
Q 772	Transistor	DTC114EK
Q 810	Transistor	2SA1576
Q 811	Transistor	DTC124EK
Q 812	Transistor	2SA1674
Q 821	Transistor	2SC2412K
Q 822	Transistor	2SA1162
Q 823	Transistor	2SC2412K
Q 841	Transistor	2SC2412K
Q 842	Transistor	2SC2412K
Q 851	Transistor	DTA114EK
Q 852	Transistor	2SC2412K
Q 853	Transistor	DTC114TK
Q 854	Transistor	DTA114EK
Q 883	Transistor	2SC2412K
Q 901	Transistor	2SB1238
Q 902	Transistor	2SB1299
Q 903	Transistor	IMX1
Q 904	Transistor	IMX1
Q 905	Transistor	2SB1185
Q 907	Transistor	IMX1
Q 908	Transistor	DTA124EK
Q 909	Transistor	2SB1185
Q 910	Transistor	IMX1
Q 911	Transistor	2SB1238
Q 912	Transistor	2SB1299
Q 913	Transistor	2SB1185
Q 914	Transistor	IMX1
Q 916	Transistor	DTA124EK
D 101	Diode	HZU3R3(B2)
D 213	Diode	HZS5LL(B)
D 301	Diode	HZS20L(2)
D 302	Diode	HZS20L(2)
D 303	Diode	HZS20L(2)
D 304	Diode	HZS20L(2)
D 351	Diode	HZS9L(A1)
D 352	Diode	MA111
D 701	Diode	UDZ18(B)
D 702	Diode	UDZ18(B)
D 703	Diode	UDZ18(B)
D 704	Diode	UDZ18(B)
D 705	Diode	UDZ18(B)
D 706	Diode	UDZ18(B)
D 707	Diode	UDZ18(B)
D 708	Diode	UDZ18(B)
D 751	Diode	HZS6L(B2)
D 752	Diode	MA153
D 753	Diode	MA153
D 754	Diode	MA153
D 755	Diode	MA153
D 756	Diode	MA153
D 757	Diode	MA153
D 758	Diode	MA153
D 759	Diode	UDZ10(B)
D 760	Diode	MA153
D 761	Diode	MA153
D 762	Diode	MA153
D 763	Diode	MA153
D 810	Diode	1SS133
D 811	Diode	1SS133

Circuit Symbol and No.	Part Name	Part No.
D 821	Diode	HZS5LL(C)
D 822	Diode	1SS133
D 823	Diode	HZS7L(B2)
D 841	Diode	HZS6L(B2)
D 842	Diode	MA152WK
D 843	Diode	MA111
D 851	Diode	HZS12L(C1)
D 861	Diode	1SS133
D 862	Diode	1SS133
D 863	Diode	1SS133
D 864	Diode	1SS133
D 871	Diode	1SS133
D 872	Diode	1SS133
D 883	Diode	HZS7L(B2)
D 901	Diode	HZU7R5(B3)
D 902	Diode	RB500V-40
D 903	Diode	HZS5LL(A)
D 904	Diode	HZS18L(3)
D 905	Diode	MA728
D 906	Diode	HZU8R2(B1)
D 907	Diode	MA728
D 908	Diode	UDZ8R2(B)
D 909	Diode	RM4Z-LFJ1
D 921	Diode	ERA15-02VH
D 922	Diode	1SS133
D 923	Diode	1SS133
L 101	Inductor	CTF1379
L 351	Inductor	LCTA2R2J2520
L 403	Inductor	LAU1R0K
L 404	Inductor	LAU1R0K
L 501	Inductor	LAU2R2K
L 502	Inductor	LAU2R2K
L 551	Inductor	LAU1R0K
L 552	Inductor	LAU1R0K
L 601	Chip-Inductor	LCTA2R2J3225
L 602	Inductor	LCTA2R2J2520
L 603	Inductor	CTF1379
L 604	Inductor	CTF1379
L 605	Inductor	CTF1306
L 606	Inductor	CTF1306
L 701	Inductor	CTF1379
L 751	Inductor	LAU2R2K
L 901	Inductor	CTF1499
L 902	Choke Coil 100µH	CTH1196
L 903	Transformer	CTX1088
L 905	Choke Coil 1.4mH	CTH1129
TH901	Thermistor	CCX1051
X 501	Crystal Resonator 4.332MHz	CSS1056
X 601	Radiator 16MHz	CSS1571
X 602	Radiator 32.768kHz	CSS1319
S 751	Spring Switch(OPEN)	CSN1046
S 752	Spring Switch(CLOSE)	CSN1046
FU901	Fuse 2A	CEK1176
FU902	Fuse 1.75A	CEK1177
FB902	Inductor	CTF1449
FB901	Inductor	CTF1449

RESISTORS

R 102		RS1/16S102J
R 103		RS1/16S103J

Circuit Symbol and No.	Part Name	Part No.
R 104		RS1/16S682J
R 106		RS1/16S102J
R 108		RS1/16S101J
R 151		RS1/16S104J
R 152		RS1/16S473J
R 153		RS1/16S473J
R 154		RS1/16S473J
R 155		RS1/16S473J
R 156		RS1/16S104J
R 157		RS1/16S104J
R 158		RS1/16S272J
R 159		RS1/16S272J
R 160		RS1/16S563J
R 161		RS1/16S563J
R 162		RS1/16S472J
R 163		RS1/16S472J
R 164		RS1/16S391J
R 165		RS1/16S912J
R 201		RS1/16S472J
R 202		RS1/16S472J
R 203		RS1/16S472J
R 204		RS1/16S472J
R 205		RS1/16S470J
R 206		RS1/16S470J
R 207		RS1/16S472J
R 208		RS1/16S472J
R 209		RS1/16S470J
R 210		RS1/16S470J
R 211		RS1/16S472J
R 212		RS1/16S472J
R 213		RS1/16S470J
R 214		RS1/16S470J
R 215		RS1/16S472J
R 216		RS1/16S472J
R 217		RS1/16S472J
R 218		RS1/16S472J
R 219		RS1/16S470J
R 220		RS1/16S470J
R 226		RS1/16S472J
R 227		RS1/16S470J
R 228		RS1/16S472J
R 229		RS1/16S472J
R 230		RS1/16S470J
R 231		RS1/16S102J
R 232		RS1/16S272J
R 233		RS1/16S473J
R 234		RS1/16S473J
R 236		RS1/16S473J
R 237		RS1/16S472J
R 238		RS1/16S472J
R 240		RS1/16S472J
R 251		RS1/16S333J
R 252		RS1/16S333J
R 253		RS1/16S333J
R 254		RS1/16S333J
R 255		RS1/16S333J
R 256		RS1/16S333J
R 257		RS1/16S333J
R 258		RS1/16S333J
R 259		RS1/16S753J

Circuit Symbol and No.	Part Name	Part No.
R 260		RS1/16S753J
R 261		RS1/16S753J
R 262		RS1/16S753J
R 263		RS1/16S753J
R 264		RS1/16S753J
R 265		RS1/16S753J
R 266		RS1/16S753J
R 301		RS1/16S223J
R 302		RS1/16S472J
R 303		RS1/16S472J
R 304		RS1/16S273J
R 305		RS1/16S472J
R 306		RD1/4PU470J
R 307		RD1/4PU470J
R 308		RS1/16S102J
R 351		RS1/16S223J
R 352		RS1/16S223J
R 353		RS1/16S223J
R 354		RS1/16S332J
R 355		RS1/16S121J
R 356		RS1/16S121J
R 357		RS1/16S221J
R 358		RS1/16S221J
R 359		RS1/16S222J
R 404		RS1/16S473J
R 405		RS1/16S681J
R 406		RS1/16S103J
R 407		RS1/16S681J
R 408		RS1/16S681J
R 409		RS1/16S681J
R 410		RS1/16S473J
R 411		RS1/16S681J
R 412		RS1/16S681J
R 413		RS1/16S272J
R 414		RS1/16S272J
R 415		RS1/16S393J
R 416		RS1/16S162J
R 417		RS1/16S162J
R 418		RS1/16S472J
R 419		RS1/16S473J
R 420		RS1/16S473J
R 424		RS1/16S222J
R 425		RS1/16S473J
R 501		RS1/16S393J
R 503		RS1/16S681J
R 504		RAB4C102J
R 505		RS1/16S102J
R 602		RS1/16S473J
R 603		RS1/16S473J
R 605		RS1/16S102J
R 607		RS1/16S474J
R 608		RS1/16S474J
R 609		RS1/16S474J
R 610		RS1/16S0R0J
R 611		RS1/16S473J
R 612		RS1/16S471J
R 613		RS1/16S102J
R 614		RS1/16S102J
R 615		RAB4C471J
R 619		RS1/16S471J

Circuit Symbol and No.	Part Name	Part No.
R 620		RS1/16S471J
R 621		RS1/16S471J
R 622		RAB4C471J
R 623		RS1/16S102J
R 624		RS1/16S102J
R 625		RS1/16S102J
R 626		RAB4C471J
R 627		RS1/16S471J
R 628		RS1/16S474J
R 629		RS1/16S474J
R 630		RS1/16S124J
R 631		RS1/16S274J
R 632		RS1/16S473J
R 633		RS1/16S103J
R 634		RS1/16S102J
R 635		RS1/16S274J
R 636		RS1/16S102J
R 637		RS1/16S274J
R 638		RS1/16S102J
R 640		RS1/16S102J
R 641		RAB4C102J
R 642		RS1/16S102J
R 643		RS1/16S102J
R 644		RS1/16S473J
R 649		RS1/16S0R0J
R 651		RS1/16S124J
R 652		RS1/16S102J
R 653		RS1/16S0R0J
R 654		RS1/16S473J
R 655		RAB4C102J
R 656		RS1/16S473J
R 657		RAB4C102J
R 659		RS1/16S471J
R 661		RS1/16S102J
R 662		RAB4C102J
R 663		RAB4C473J
R 664		RS1/16S472J
R 665		RS1/16S471J
R 666		RS1/16S102J
R 667		RS1/16S102J
R 668		RAB4C0R0J
R 669		RAB4C102J
R 680		RS1/16S473J
R 681		RS1/16S274J
R 685		RS1/16S102J
R 686		RS1/16S102J
R 688		RS1/16S471J
R 689		RS1/16S471J
R 693		RS1/16S102J
R 701		RS1/16S0R0J
R 702		RS1/16S0R0J
R 703		RS1/16S0R0J
R 704		RS1/16S0R0J
R 705		RS1/16S102J
R 706		RS1/16S102J
R 707		RS1/16S102J
R 708		RS1/16S102J
R 709		RS1/16S223J
R 710		RS1/16S223J
R 711		RS1/16S223J

Circuit Symbol and No.	Part Name	Part No.
R 712		RS1/16S223J
R 713		RS1/16S223J
R 714		RS1/16S223J
R 715		RS1/16S223J
R 716		RS1/16S223J
R 751		RS1/16S152J
R 752		RS1/16S222J
R 753		RS1/16S681J
R 754		RS1/16S105J
R 757		RS1/16S223J
R 758		RS1/16S222J
R 759		RS1/16S222J
R 761		RS1/16S681J
R 762		RS1/16S473J
R 763		RS1/16S681J
R 764		RS1/16S681J
R 771		RS1/16S222J
R 772		RS1/16S222J
R 773		RS1/16S473J
R 774		RS1/16S103J
R 775		RS1/16S103J
R 776		RS1/16S473J
R 777		RS1/16S681J
R 778		RS1/16S681J
R 779		RS1/16S332J
R 810		RS1/16S220J
R 811		RS1/16S103J
R 812		RS1/16S103J
R 813		RS1/16S822J
R 814		RS1/16S103J
R 815		RD1/4PU101J
R 821		RS1/16S822J
R 822		RS1/16S471J
R 823		RS1/16S473J
R 824		RS1/16S683J
R 825		RS1/16S473J
R 826		RD1/4PU101J
R 827		RD1/4PU102J
R 828		RS1/16S103J
R 829		RS1/16S471J
R 830		RS1/16S272J
R 832		RS1/16S223J
R 833		RS1/16S223J
R 841		RD1/4PU472J
R 842		RS1/16S222J
R 843		RS1/16S473J
R 844		RS1/16S333J
R 846		RS1/16S473J
R 847		RS1/16S103J
R 848		RS1/16S473J
R 851		RS1/16S473J
R 852		RS1/16S473J
R 853		RS1/16S682J
R 854		RS1/16S104J
R 855		RS1/16S473J
R 856		RS1/16S473J
R 858		RD1/4PU102J
R 860		RS1/16S473J
R 861		RS1/16S103J
R 862		RS1/16S103J

Circuit Symbol and No.	Part Name	Part No.
R 863		RS1/8S362J
R 864		RD1/4PU471J
R 865		RS1/16S103J
R 866		RS1/8S362J
R 867		RS1/16S273J
R 868		RD1/4PU471J
R 871		RS1/16S102J
R 872		RS1/16S102J
R 873		RS1/16S102J
R 874		RS1/16S102J
R 875		RS1/16S102J
R 876		RS1/16S102J
R 883		RS1/16S473J
R 884		RS1/16S683J
R 885		RS1/16S473J
R 887		RS1/16S102J
R 888		RS1/16S103J
R 890		RS1/16S102J
R 901		RS1/10S470J
R 902		RS1/10SR68J
R 903		RN1/10SK3903D
R 904		RS1/10S511J
R 905		RS1/10S151J
R 906		RN1/10SE3302D
R 907		RN1/10SK4303D
R 908		RS1/16S681J
R 909		RS1/16S621J
R 910		RS1/16S333J
R 911		RS1/16S471J
R 912		RS1/16S471J
R 913		RS1/16S471J
R 914		RS1/10S122J
R 915		RS1/16S223J
R 916		RS1/16S223J
R 917		RS1/16S332J
R 918		RS1/16S332J
R 919		RS1/10S102J
R 920		RS1/16S222J
R 921		RS1/16S472J
R 922		RS1/10S471J
R 923		RS1/16S821J
R 924		RS1/16S821J
R 925		RS1/10S681J
R 926		RS1/16S511J
R 927		RS1/16S223J
R 928		RS1/16S511J
R 929		RS1/16S472J
R 930		RS1/16S332J
R 931		RS1/16S124J
R 932		RS1/16S511J
R 933		RS1/16S102J
R 934		RD1/4PU2R2J
R 935		RD1/4PU2R2J
R 936		RS1/16S222J
R 937		RS1/16S911J
R 938		RS1/16S511J
R 939		RS1/16S223J
R 940		RS1/16S511J
R 941		RS1/16S224J
R 942		RS1/16S104J
R 943		RS1/16S511J
R 944		RS1/16S822J
R 945		RS1/16S332J
R 946		RS1/16S274J
R 947		RS1/16S104J
R 948		RS1/16S0R0J
R 949		RS1/16S0R0J
R 950		RS1/16S911J
R 951		RS1/16S102J
R 952		RS1/16S153J
R 953		RS1/16S332J
R 954		RS1/16S471J
R 955		RS1/4SA101J
R 956		RS1/16S0R0J
R 957		RS1/16S222J

CAPACITORS

C 101		CKSQYB225K10
C 102		CKSQYB225K10
C 103		CKSQYB225K10
C 104		CKSQYB225K10
C 105		CKSRYB224K16
C 106		CKSRYB224K16
C 107		CKSRYB474K10
C 108		CKSRYB474K10
C 109		CKSRYB104K16
C 110		CKSYB106K6R3
C 111		CKSYB106K6R3
C 112		CKSRYB105K10
C 113		CKSRYB104K16
C 114		CCSRCH101J50
C 116		CCSRCH101J50
C 117		CKSYB106K6R3
C 118		CKSYB106K6R3
C 120		CKSYB106K6R3
C 121		CKSRYB472K50
C 122		CKSRYB472K50
C 123		CCSRCH471J50
C 124		CCSRCH471J50
C 125		CKSRYB473K50
C 126		CCSRCH101J50
C 151		CKSRYB103K50
C 152		CKSYB106K6R3
C 153		CKSYB106K6R3
C 154		CKSRYB105K10
C 155		CKSRYB222K50
C 156		CKSRYB105K10
C 201		CCSRCH101J50
C 202		CCSRCH101J50
C 203		CCSRCH101J50
C 204		CCSRCH101J50
C 207		CKSRYB102K50
C 208		CKSRYB102K50
C 209		CKSRYB102K50
C 210		CKSRYB102K50
C 213		CCSRCH101J50
C 214		CCSRCH101J50
C 215		CCSRCH101J50
C 216		CCSRCH101J50
C 219		CKSRYB102K50

Circuit Symbol and No.	Part Name	Part No.
C 220		CKSRYB102K50
C 221		CKSRYB102K50
C 222		CKSRYB102K50
C 231		CCSRCH101J50
C 232		CCSRCH101J50
C 233		CCSRCH101J50
C 234		CKSRYB102K50
C 235		CKSRYB102K50
C 236		CCSRCH101J50
C 237		CEAT331M6R3
C 238		CEAL100M16
C 239		CCSRCH101J50
C 251		CCSRCH470J50
C 252		CCSRCH470J50
C 253		CCSRCH470J50
C 254		CCSRCH470J50
C 255		CCSRCH470J50
C 256		CCSRCH470J50
C 257		CCSRCH470J50
C 258		CCSRCH470J50
C 259	10µF	CCG1138
C 260	10µF	CCG1138
C 261	10µF	CCG1138
C 262	10µF	CCG1138
C 263	10µF	CCG1138
C 264	10µF	CCG1138
C 265		CKSRYB105K10
C 266		CKSRYB105K10
C 301		CKSRYB223K50
C 302		CEAL100M16
C 303		CEAL220M10
C 304		CKSRYB222K50
C 305		CKSRYB222K50
C 306		CCSQCH101J50
C 307		CCSRCH181J50
C 308		CCSQCH101J50
C 309		CCSRCH181J50
C 351		CKSRYB102K50
C 352		CEJQ101M16
C 353		CKSRYB104K16
C 354		CEAL100M16
C 355		CASA4R7M16
C 357		CKSRYB105K6R3
C 358		CKSYB106K6R3
C 405		CKSRYB103K50
C 406		CKSRYB183K50
C 407		CKSRYB183K50
C 408		CEJQ101M6R3
C 409		CKSRYB103K50
C 410		CEJQ101M16
C 411		CKSRYB472K50
C 412		CKSRYB103K50
C 421		CKSRYB683K16
C 501		CEAL100M16
C 502		CKSRYB104K16
C 503		CKSYB106K6R3
C 504		CKSRYB104K16
C 505		CKSRYB105K10
C 506		CKSRYB104K16
C 507		CKSRYB472K50
C 508		CCSRCH220J50
C 509		CCSRCH220J50
C 551		CKSRYB102K50
C 552		CKSRYB102K50
C 601		CKSRYB104K16
C 602		CCSRCH180J50
C 603		CKSYB106K6R3
C 604		CCSRCH101J50
C 605		CCSRCH180J50
C 607		CCSRCH220J50
C 608		CCSRCH180J50
C 609		CKSRYB104K16
C 610		CKSRYB102K50
C 611		CKSRYB103K50
C 612		CKSRYB103K50
C 613		CKSRYB103K50
C 614		CKSRYB102K50
C 615		CKSRYB102K50
C 616		CKSRYB104K16
C 617		CKSRYB104K16
C 618		CCSRCH101J50
C 619		CKSRYB104K16
C 620		CCSRCH101J50
C 702		CKSRYB103K50
C 703		CEAL470M10
C 704		CKSYB475K10
C 705		CKSYB475K10
C 706		CKSYB475K10
C 707		CKSYB475K10
C 751		CKSRYB104K16
C 752		CKSRYB104K16
C 771		CCSRCH681J50
C 772		CCSRCH681J50
C 810		CKSRYB103K50
C 811		CCSRCH101J50
C 841		CCSRCH221J50
C 842		CKSRYB103K50
C 852		CKSRYB102K50
C 853		CCSRCH181J50
C 861		CKSRYB473K50
C 862		CKSRYB473K50
C 871		CKSRYB103K50
C 881		CKSRYB224K16
C 901		CKSRYB105K10
C 902		CASA470M20
C 903		CKSRYB102K50
C 904		CKSRYB104K25
C 905		CKSRYB104K16
C 906		CKSRYB105K10
C 907		CEHAR470M16
C 908		CEJQ470M10
C 909		CEHAT331M10
C 910		CCSRCH101J50
C 911		CKSRYB102K50
C 912		CKSQYB104K25
C 913		CEJQ4R7M35
C 914		CCSRCH101J50
C 915		CKSRYB104K16
C 916		CEJQ100M25
C 917		CKSRYB102K50

Circuit Symbol and No.	Part Name	Part No.
C 918		CEHAT331M10
C 919		CKSRYB223K50
C 920		CKSRYB104K25
C 921		CEJQ220M10
C 922		CASA330M10
C 923		CKSRYB103K50
C 924		CEJQ470M6R3
C 925	470µF/6.3V	CCH1182
C 926	100µF/10V	CCH1323
C 927		CKSRYB103K50
C 928		CKSRYB105K10
C 929		CEHAR101M10
C 930	3300µF/16V	CCH1163(P35)
C 931		CKSRYB103K50
C 932		CKSRYB104K25
C 933		CKSRYB153K50
C 934		CKSYB105K16
C 937		CEAT102M16(P35)
C 938		CKSRYB103K50
C 939		CKSRYB103K50
C 940	0.1F/5.5V	CCL1023
C 941		CKSRYB473K50
C 942		CKSRYB104K25
C 943		CKSYB105K16
C 944		CCSRCH102J50

A

Unit Number:CWM9105(AVX-MG2337ZF)
Unit Name:Tuner Audio Unit

MISCELLANEOUS

IC 101	IC	PML011A
IC 151	IC	TC7S66F
IC 201	IC	NJM2068MD
IC 202	IC	NJM2068MD
IC 203	IC	NJM2068MD
IC 204	IC	NJM2068MD
IC 206	IC	NJM2068MD
IC 251	IC	NJM4558V
IC 252	IC	NJM4558V
IC 301	IC	DS36277
IC 302	IC	PCA82C250T
IC 303	IC	BA05SFP
IC 501	IC	PM4006B
IC 601	IC	S-93C56BD0I-J8
IC 602	IC	PD5904D
IC 603	IC	BU2099FV
IC 604	IC	S-80942CNMC-G9C
IC 771	IC	TC7S86FU
IC 772	Photo-interrupter	GP1S94
IC 773	IC	TC7S14FU
IC 901	IC	TK11835M
IC 902	IC	BA6288FS
IC 903	IC	TK11818M
IC 904	IC	S-812C50AMC-C3E
IC 905	IC	PAJ002A
Q 151	Transistor	DTA114EK

Circuit Symbol and No.	Part Name	Part No.
Q 201	Transistor	2SC2712
Q 351	Transistor	2SB1185
Q 352	Transistor	IMX1
Q 401	Transistor	2SC2412K
Q 501	Transistor	DTA124EK
Q 602	Transistor	DTC124EU
Q 603	Transistor	DTA124EK
Q 604	Transistor	DTA124EK
Q 701	Transistor	2SC2412K
Q 702	Transistor	2SC2412K
Q 703	Transistor	2SC2412K
Q 704	Transistor	2SC2412K
Q 751	Transistor	IMX1
Q 752	Transistor	2SB1185
Q 753	Transistor	2SB1132
Q 771	Transistor	2SB1238
Q 772	Transistor	DTC114EK
Q 810	Transistor	2SA1576
Q 811	Transistor	DTC124EK
Q 812	Transistor	2SA1674
Q 821	Transistor	2SC2412K
Q 822	Transistor	2SA1162
Q 823	Transistor	2SC2412K
Q 841	Transistor	2SC2412K
Q 842	Transistor	2SC2412K
Q 851	Transistor	DTA114EK
Q 852	Transistor	2SC2412K
Q 853	Transistor	DTC114TK
Q 854	Transistor	DTA114EK
Q 883	Transistor	2SC2412K
Q 901	Transistor	2SB1238
Q 902	Transistor	2SB1299
Q 903	Transistor	IMX1
Q 904	Transistor	IMX1
Q 905	Transistor	2SB1185
Q 907	Transistor	IMX1
Q 908	Transistor	DTA124EK
Q 909	Transistor	2SB1185
Q 910	Transistor	IMX1
Q 911	Transistor	2SB1238
Q 912	Transistor	2SB1299
Q 913	Transistor	2SB1185
Q 914	Transistor	IMX1
Q 916	Transistor	DTA124EK
D 101	Diode	HZU3R3(B2)
D 213	Diode	HZS5LL(B)
D 301	Diode	HZS20L(2)
D 302	Diode	HZS20L(2)
D 303	Diode	HZS20L(2)
D 304	Diode	HZS20L(2)
D 351	Diode	HZS9L(A1)
D 352	Diode	MA111
D 701	Diode	UDZ18(B)
D 702	Diode	UDZ18(B)
D 703	Diode	UDZ18(B)
D 704	Diode	UDZ18(B)
D 705	Diode	UDZ18(B)
D 706	Diode	UDZ18(B)
D 707	Diode	UDZ18(B)
D 708	Diode	UDZ18(B)

Circuit Symbol and No.	Part Name	Part No.
D 751	Diode	HZS6L(B2)
D 752	Diode	MA153
D 753	Diode	MA153
D 754	Diode	MA153
D 755	Diode	MA153
D 756	Diode	MA153
D 757	Diode	MA153
D 758	Diode	MA153
D 759	Diode	UDZ10(B)
D 760	Diode	MA153
D 761	Diode	MA153
D 762	Diode	MA153
D 763	Diode	MA153
D 810	Diode	1SS133
D 811	Diode	1SS133
D 821	Diode	HZS5LL(C)
D 822	Diode	1SS133
D 823	Diode	HZS7L(B2)
D 841	Diode	HZS6L(B2)
D 842	Diode	MA152WK
D 843	Diode	MA111
D 851	Diode	HZS12L(C1)
D 861	Diode	1SS133
D 862	Diode	1SS133
D 863	Diode	1SS133
D 864	Diode	1SS133
D 871	Diode	1SS133
D 872	Diode	1SS133
D 883	Diode	HZS7L(B2)
D 901	Diode	HZU7R5(B3)
D 902	Diode	RB500V-40
D 903	Diode	HZS5LL(A)
D 904	Diode	HZS18L(3)
D 905	Diode	MA728
D 906	Diode	HZU8R2(B1)
D 907	Diode	MA728
D 908	Diode	UDZ8R2(B)
D 909	Diode	RM4Z-LFJ1
D 921	Diode	ERA15-02VH
D 922	Diode	1SS133
D 923	Diode	1SS133
L 101	Inductor	CTF1379
L 351	Inductor	LCTA2R2J2520
L 403	Inductor	LAU1R0K
L 404	Inductor	LAU1R0K
L 501	Inductor	LAU2R2K
L 502	Inductor	LAU2R2K
L 551	Inductor	LAU1R0K
L 552	Inductor	LAU1R0K
L 601	Chip-Inductor	LCTA2R2J3225
L 602	Inductor	LCTA2R2J2520
L 603	Inductor	CTF1379
L 604	Inductor	CTF1379
L 605	Inductor	CTF1306
L 606	Inductor	CTF1306
L 701	Inductor	CTF1379
L 751	Inductor	LAU2R2K
L 901	Inductor	CTF1499
L 902	Choke Coil 100µH	CTH1196
L 903	Transformer	CTX1088

Circuit Symbol and No.	Part Name	Part No.
L 905	Choke Coil 1.4mH	CTH1129
TH901	Thermistor	CCX1051
X 501	Crystal Resonator 4.332MHz	CSS1056
X 601	Radiator 16MHz	CSS1571
X 602	Radiator 32.768kHz	CSS1319
S 751	Spring Switch(OPEN)	CSN1046
S 752	Spring Switch(CLOSE)	CSN1046
FU901	Fuse 2A	CEK1176
FU902	Fuse 1.75A	CEK1177
FB902	Inductor	CTF1449
FB901	Inductor	CTF1449

RESISTORS

R 102		RS1/16S102J
R 103		RS1/16S103J
R 104		RS1/16S682J
R 106		RS1/16S102J
R 108		RS1/16S101J
R 151		RS1/16S104J
R 152		RS1/16S473J
R 153		RS1/16S473J
R 154		RS1/16S473J
R 155		RS1/16S473J
R 156		RS1/16S104J
R 157		RS1/16S104J
R 158		RS1/16S272J
R 159		RS1/16S272J
R 160		RS1/16S563J
R 161		RS1/16S563J
R 162		RS1/16S472J
R 163		RS1/16S472J
R 164		RS1/16S391J
R 165		RS1/16S912J
R 201		RS1/16S472J
R 202		RS1/16S472J
R 203		RS1/16S472J
R 204		RS1/16S472J
R 205		RS1/16S470J
R 206		RS1/16S470J
R 207		RS1/16S472J
R 208		RS1/16S472J
R 209		RS1/16S470J
R 210		RS1/16S470J
R 211		RS1/16S472J
R 212		RS1/16S472J
R 213		RS1/16S470J
R 214		RS1/16S470J
R 215		RS1/16S472J
R 216		RS1/16S472J
R 217		RS1/16S472J
R 218		RS1/16S472J
R 219		RS1/16S470J
R 220		RS1/16S470J
R 226		RS1/16S472J
R 227		RS1/16S470J
R 228		RS1/16S472J
R 229		RS1/16S472J
R 230		RS1/16S470J
R 231		RS1/16S102J
R 232		RS1/16S272J

Circuit Symbol and No.	Part Name	Part No.
R 233		RS1/16S473J
R 234		RS1/16S473J
R 236		RS1/16S473J
R 237		RS1/16S472J
R 238		RS1/16S472J
R 240		RS1/16S472J
R 251		RS1/16S333J
R 252		RS1/16S333J
R 253		RS1/16S333J
R 254		RS1/16S333J
R 255		RS1/16S333J
R 256		RS1/16S333J
R 257		RS1/16S333J
R 258		RS1/16S333J
R 259		RS1/16S753J
R 260		RS1/16S753J
R 261		RS1/16S753J
R 262		RS1/16S753J
R 263		RS1/16S753J
R 264		RS1/16S753J
R 265		RS1/16S753J
R 266		RS1/16S753J
R 301		RS1/16S223J
R 302		RS1/16S472J
R 303		RS1/16S472J
R 304		RS1/16S273J
R 305		RS1/16S472J
R 306		RD1/4PU470J
R 307		RD1/4PU470J
R 308		RS1/16S102J
R 351		RS1/16S223J
R 352		RS1/16S223J
R 353		RS1/16S223J
R 354		RS1/16S332J
R 355		RS1/16S121J
R 356		RS1/16S121J
R 357		RS1/16S221J
R 358		RS1/16S221J
R 359		RS1/16S222J
R 404		RS1/16S473J
R 405		RS1/16S681J
R 406		RS1/16S103J
R 407		RS1/16S681J
R 408		RS1/16S681J
R 409		RS1/16S681J
R 410		RS1/16S473J
R 411		RS1/16S681J
R 412		RS1/16S681J
R 413		RS1/16S272J
R 414		RS1/16S272J
R 415		RS1/16S393J
R 416		RS1/16S162J
R 417		RS1/16S162J
R 418		RS1/16S472J
R 419		RS1/16S473J
R 420		RS1/16S473J
R 424		RS1/16S222J
R 425		RS1/16S473J
R 501		RS1/16S393J
R 503		RS1/16S681J

Circuit Symbol and No.	Part Name	Part No.
R 504		RAB4C102J
R 505		RS1/16S102J
R 602		RS1/16S473J
R 603		RS1/16S473J
R 605		RS1/16S102J
R 607		RS1/16S474J
R 608		RS1/16S474J
R 609		RS1/16S474J
R 610		RS1/16S0R0J
R 611		RS1/16S473J
R 612		RS1/16S471J
R 613		RS1/16S102J
R 614		RS1/16S102J
R 615		RAB4C471J
R 619		RS1/16S471J
R 620		RS1/16S471J
R 621		RS1/16S471J
R 622		RAB4C471J
R 623		RS1/16S102J
R 624		RS1/16S102J
R 625		RS1/16S102J
R 626		RAB4C471J
R 627		RS1/16S471J
R 628		RS1/16S474J
R 629		RS1/16S474J
R 630		RS1/16S473J
R 632		RS1/16S473J
R 633		RS1/16S103J
R 634		RS1/16S102J
R 635		RS1/16S274J
R 636		RS1/16S102J
R 637		RS1/16S274J
R 638		RS1/16S102J
R 640		RS1/16S102J
R 641		RAB4C102J
R 642		RS1/16S102J
R 643		RS1/16S102J
R 644		RS1/16S473J
R 649		RS1/16S0R0J
R 651		RS1/16S124J
R 652		RS1/16S102J
R 653		RS1/16S0R0J
R 654		RS1/16S473J
R 655		RAB4C102J
R 656		RS1/16S473J
R 657		RAB4C102J
R 659		RS1/16S471J
R 661		RS1/16S102J
R 662		RAB4C102J
R 663		RAB4C473J
R 664		RS1/16S472J
R 665		RS1/16S471J
R 666		RS1/16S102J
R 667		RS1/16S102J
R 668		RAB4C0R0J
R 669		RAB4C102J
R 680		RS1/16S473J
R 681		RS1/16S274J
R 685		RS1/16S102J
R 686		RS1/16S102J

Circuit Symbol and No.	Part Name	Part No.
R 688		RS1/16S471J
R 689		RS1/16S471J
R 693		RS1/16S102J
R 701		RS1/16S0R0J
R 702		RS1/16S0R0J
R 703		RS1/16S0R0J
R 704		RS1/16S0R0J
R 705		RS1/16S102J
R 706		RS1/16S102J
R 707		RS1/16S102J
R 708		RS1/16S102J
R 709		RS1/16S223J
R 710		RS1/16S223J
R 711		RS1/16S223J
R 712		RS1/16S223J
R 713		RS1/16S223J
R 714		RS1/16S223J
R 715		RS1/16S223J
R 716		RS1/16S223J
R 751		RS1/16S152J
R 752		RS1/16S222J
R 753		RS1/16S681J
R 754		RS1/16S105J
R 757		RS1/16S223J
R 758		RS1/16S222J
R 759		RS1/16S222J
R 761		RS1/16S681J
R 762		RS1/16S473J
R 763		RS1/16S681J
R 764		RS1/16S681J
R 771		RS1/16S222J
R 772		RS1/16S222J
R 773		RS1/16S473J
R 774		RS1/16S103J
R 775		RS1/16S103J
R 776		RS1/16S473J
R 777		RS1/16S681J
R 778		RS1/16S681J
R 779		RS1/16S332J
R 810		RS1/16S220J
R 811		RS1/16S103J
R 812		RS1/16S103J
R 813		RS1/16S822J
R 814		RS1/16S103J
R 815		RD1/4PU101J
R 821		RS1/16S822J
R 822		RS1/16S471J
R 823		RS1/16S473J
R 824		RS1/16S104J
R 825		RS1/16S473J
R 826		RD1/4PU101J
R 827		RD1/4PU102J
R 828		RS1/16S103J
R 829		RS1/16S471J
R 830		RS1/16S393J
R 832		RS1/16S223J
R 833		RS1/16S223J
R 841		RD1/4PU472J
R 842		RS1/16S222J
R 843		RS1/16S473J

Circuit Symbol and No.	Part Name	Part No.
R 844		RS1/16S333J
R 846		RS1/16S473J
R 847		RS1/16S103J
R 848		RS1/16S473J
R 851		RS1/16S473J
R 852		RS1/16S473J
R 853		RS1/16S682J
R 854		RS1/16S104J
R 855		RS1/16S473J
R 856		RS1/16S473J
R 858		RD1/4PU102J
R 860		RS1/16S473J
R 861		RS1/16S103J
R 862		RS1/16S103J
R 863		RS1/8S362J
R 864		RD1/4PU471J
R 865		RS1/16S103J
R 866		RS1/8S362J
R 867		RS1/16S273J
R 868		RD1/4PU471J
R 871		RS1/16S102J
R 872		RS1/16S102J
R 873		RS1/16S102J
R 874		RS1/16S102J
R 875		RS1/16S102J
R 876		RS1/16S102J
R 883		RS1/16S473J
R 884		RS1/16S683J
R 885		RS1/16S473J
R 887		RS1/16S102J
R 888		RS1/16S103J
R 890		RS1/16S102J
R 901		RS1/10S470J
R 902		RS1/10SR68J
R 903		RN1/10SK3903D
R 904		RS1/10S511J
R 905		RS1/10S151J
R 906		RN1/10SE3302D
R 907		RN1/10SK4303D
R 908		RS1/16S681J
R 909		RS1/16S621J
R 910		RS1/16S333J
R 911		RS1/16S471J
R 912		RS1/16S471J
R 913		RS1/16S471J
R 914		RS1/10S122J
R 915		RS1/16S223J
R 916		RS1/16S223J
R 917		RS1/16S332J
R 918		RS1/16S332J
R 919		RS1/10S102J
R 920		RS1/16S222J
R 921		RS1/16S472J
R 922		RS1/10S471J
R 923		RS1/16S821J
R 924		RS1/16S821J
R 925		RS1/10S681J
R 926		RS1/16S511J
R 927		RS1/16S223J
R 928		RS1/16S511J

Circuit Symbol and No.	Part Name	Part No.
R 929		RS1/16S472J
R 930		RS1/16S332J
R 931		RS1/16S124J
R 932		RS1/16S511J
R 933		RS1/16S102J
R 934		RD1/4PU2R2J
R 935		RD1/4PU2R2J
R 936		RS1/16S222J
R 937		RS1/16S911J
R 938		RS1/16S511J
R 939		RS1/16S223J
R 940		RS1/16S511J
R 941		RS1/16S224J
R 942		RS1/16S104J
R 943		RS1/16S511J
R 944		RS1/16S822J
R 945		RS1/16S332J
R 946		RS1/16S274J
R 947		RS1/16S104J
R 948		RS1/16S0R0J
R 949		RS1/16S0R0J
R 950		RS1/16S911J
R 951		RS1/16S102J
R 952		RS1/16S153J
R 953		RS1/16S332J
R 954		RS1/16S471J
R 955		RS1/4SA101J
R 956		RS1/16S0R0J
R 957		RS1/16S222J

CAPACITORS

Circuit Symbol and No.	Part Name	Part No.
C 101		CKSQYB225K10
C 102		CKSQYB225K10
C 103		CKSQYB225K10
C 104		CKSQYB225K10
C 105		CKSRYB224K16
C 106		CKSRYB224K16
C 107		CKSRYB474K10
C 108		CKSRYB474K10
C 109		CKSRYB104K16
C 110		CKSYB106K6R3
C 111		CKSYB106K6R3
C 112		CKSRYB105K10
C 113		CKSRYB104K16
C 114		CCSRCH101J50
C 116		CCSRCH101J50
C 117		CKSYB106K6R3
C 118		CKSYB106K6R3
C 120		CKSYB106K6R3
C 121		CKSRYB472K50
C 122		CKSRYB472K50
C 123		CCSRCH471J50
C 124		CCSRCH471J50
C 125		CKSRYB473K50
C 126		CCSRCH101J50
C 151		CKSRYB103K50
C 152		CKSYB106K6R3
C 153		CKSYB106K6R3
C 154		CKSRYB105K10
C 155		CKSRYB222K50
C 156		CKSRYB105K10
C 201		CCSRCH101J50
C 202		CCSRCH101J50
C 203		CCSRCH101J50
C 204		CCSRCH101J50
C 207		CKSRYB102K50
C 208		CKSRYB102K50
C 209		CKSRYB102K50
C 210		CKSRYB102K50
C 213		CCSRCH101J50
C 214		CCSRCH101J50
C 215		CCSRCH101J50
C 216		CCSRCH101J50
C 219		CKSRYB102K50
C 220		CKSRYB102K50
C 221		CKSRYB102K50
C 222		CKSRYB102K50
C 231		CCSRCH101J50
C 232		CCSRCH101J50
C 233		CCSRCH101J50
C 234		CKSRYB102K50
C 235		CKSRYB102K50
C 236		CCSRCH101J50
C 237		CEAT331M6R3
C 238		CEAL100M16
C 239		CCSRCH101J50
C 251		CCSRCH470J50
C 252		CCSRCH470J50
C 253		CCSRCH470J50
C 254		CCSRCH470J50
C 255		CCSRCH470J50
C 256		CCSRCH470J50
C 257		CCSRCH470J50
C 258		CCSRCH470J50
C 259	10µF	CCG1138
C 260	10µF	CCG1138
C 261	10µF	CCG1138
C 262	10µF	CCG1138
C 263	10µF	CCG1138
C 264	10µF	CCG1138
C 265		CKSRYB105K10
C 266		CKSRYB105K10
C 301		CKSRYB223K50
C 302		CEAL100M16
C 303		CEAL220M10
C 304		CKSRYB222K50
C 305		CKSRYB222K50
C 306		CCSQCH101J50
C 307		CCSRCH181J50
C 308		CCSQCH101J50
C 309		CCSRCH181J50
C 351		CKSRYB102K50
C 352		CEJQ101M16
C 353		CKSRYB104K16
C 354		CEAL100M16
C 355		CASA4R7M16
C 357		CKSRYB105K6R3
C 358		CKSYB106K6R3
C 405		CKSRYB103K50
C 406		CKSRYB183K50

Circuit Symbol and No.	Part Name	Part No.
C 407		CKSRYB183K50
C 408		CEJQ101M6R3
C 409		CKSRYB103K50
C 410		CEJQ101M16
C 411		CKSRYB472K50
C 412		CKSRYB103K50
C 421		CKSRYB474K10
C 501		CEAL100M16
C 502		CKSRYB104K16
C 503		CKSYB106K6R3
C 504		CKSRYB104K16
C 505		CKSRYB105K10
C 506		CKSRYB104K16
C 507		CKSRYB472K50
C 508		CCSRCH220J50
C 509		CCSRCH220J50
C 551		CKSRYB102K50
C 552		CKSRYB102K50
C 601		CKSRYB104K16
C 602		CCSRCH180J50
C 603		CKSYB106K6R3
C 604		CCSRCH101J50
C 605		CCSRCH180J50
C 607		CCSRCH220J50
C 608		CCSRCH180J50
C 609		CKSRYB104K16
C 610		CKSRYB102K50
C 611		CKSRYB103K50
C 612		CKSRYB103K50
C 613		CKSRYB103K50
C 614		CKSRYB102K50
C 615		CKSRYB102K50
C 616		CKSRYB104K16
C 617		CKSRYB104K16
C 618		CCSRCH101J50
C 619		CKSRYB104K16
C 620		CCSRCH101J50
C 702		CKSRYB103K50
C 703		CEAL470M10
C 704		CKSYB475K10
C 705		CKSYB475K10
C 706		CKSYB475K10
C 707		CKSYB475K10
C 751		CKSRYB104K16
C 752		CKSRYB104K16
C 771		CCSRCH681J50
C 772		CCSRCH681J50
C 810		CKSRYB103K50
C 811		CCSRCH101J50
C 841		CCSRCH221J50
C 842		CKSRYB103K50
C 852		CKSRYB102K50
C 853		CCSRCH181J50
C 861		CKSRYB473K50
C 862		CKSRYB473K50
C 871		CKSRYB103K50
C 881		CKSRYB224K16
C 901		CKSRYB105K10
C 902		CASA470M20
C 903		CKSRYB102K50

Circuit Symbol and No.	Part Name	Part No.
C 904		CKSRYB104K25
C 905		CKSRYB104K16
C 906		CKSRYB105K10
C 907		CEHAR470M16
C 908		CEJQ470M10
C 909		CEHAT331M10
C 910		CCSRCH101J50
C 911		CKSRYB102K50
C 912		CKSQYB104K25
C 913		CEJQ4R7M35
C 914		CCSRCH101J50
C 915		CKSRYB104K16
C 916		CEJQ100M25
C 917		CKSRYB102K50
C 918		CEHAT331M10
C 919		CKSRYB223K50
C 920		CKSRYB104K25
C 921		CEJQ220M10
C 922		CASA330M10
C 923		CKSRYB103K50
C 924		CEJQ470M6R3
C 925	470µF/6.3V	CCH1182
C 926	100µF/10V	CCH1323
C 927		CKSRYB103K50
C 928		CKSRYB105K10
C 929		CEHAR101M10
C 930	3300µF/16V	CCH1163(P35)
C 931		CKSRYB103K50
C 932		CKSRYB104K25
C 933		CKSRYB153K50
C 934		CKSYB105K16
C 937		CEAT102M16(P35)
C 938		CKSRYB103K50
C 939		CKSRYB103K50
C 940	0.1F/5.5V	CCL1023
C 941		CKSRYB473K50
C 942		CKSRYB104K25
C 943		CKSYB105K16
C 944		CCSRCH102J50

B

Unit Number:CWM7805
Unit Name:DSP Unit

MISCELLANEOUS

IC 1001	IC	PD2071A
IC 1051	IC	PD2071A
IC 1101	IC	NJM4558MD
IC 1102	IC	NJM4558MD
IC 1201	IC	NJM4558MD
IC 1202	IC	NJM4558MD
IC 1203	IC	NJM4558MD
D 1101	Diode	HZU4R3(B2)
L 1001	Inductor	LCTA2R2J2520
L 1002	Inductor	CTF1379
L 1003	Inductor	CTF1379
L 1004	Inductor	CTF1379

Circuit Symbol and No.	Part Name	Part No.
L 1005	Inductor	CTF1379
L 1006	Inductor	CTF1379
L 1007	Inductor	CTF1379
L 1009	Inductor	CTF1379
L 1010	Inductor	LCTA2R2J2520
L 1011	Inductor	CTF1379
L 1012	Inductor	CTF1379
L 1013	Inductor	CTF1379
L 1014	Inductor	CTF1379
L 1016	Inductor	CTF1379
L 1017	Inductor	CTF1379
L 1018	Inductor	CTF1379
L 1019	Inductor	CTF1379
L 1020	Inductor	CTF1379
L 1021	Inductor	CTF1379
L 1022	Inductor	CTF1379
L 1023	Inductor	CTF1378
L 1051	Inductor	LCTA2R2J2520
L 1052	Inductor	CTF1379
L 1053	Inductor	CTF1379
L 1054	Inductor	CTF1379
L 1055	Inductor	CTF1379
L 1056	Inductor	CTF1379
L 1058	Inductor	CTF1379
L 1059	Inductor	CTF1379
L 1060	Inductor	LCTA2R2J2520
L 1061	Inductor	CTF1379
L 1062	Inductor	CTF1379
L 1063	Inductor	CTF1379
L 1064	Inductor	CTF1379
L 1066	Inductor	CTF1379
L 1067	Inductor	CTF1379
L 1068	Inductor	CTF1379
L 1069	Inductor	CTF1379
L 1070	Inductor	CTF1379
L 1071	Inductor	CTF1379
L 1072	Inductor	CTF1379
X 1001	Radiator 22.5792MHz	CSS1406

RESISTORS

R 1001	RS1/16S221J
R 1002	RS1/16S221J
R 1004	RS1/16S473J
R 1005	RS1/16S471J
R 1006	RS1/16S221J
R 1007	RS1/16S471J
R 1008	RS1/16S471J
R 1009	RS1/16S471J
R 1011	RS1/16S471J
R 1012	RS1/16S471J
R 1013	RS1/16S471J
R 1014	RS1/16S473J
R 1015	RS1/16S473J
R 1016	RS1/16S473J
R 1017	RS1/16S473J
R 1018	RS1/16S473J
R 1019	RS1/16S473J
R 1020	RS1/16S225J
R 1021	RS1/16S102J
R 1022	RS1/16S473J

Circuit Symbol and No.	Part Name	Part No.
R 1051		RS1/16S473J
R 1052		RS1/16S471J
R 1053		RS1/16S0R0J
R 1054		RS1/16S0R0J
R 1055		RS1/16S0R0J
R 1056		RS1/16S471J
R 1057		RS1/16S471J
R 1058		RS1/16S471J
R 1060		RS1/16S471J
R 1061		RS1/16S471J
R 1062		RS1/16S471J
R 1063		RS1/16S473J
R 1064		RS1/16S473J
R 1065		RS1/16S473J
R 1066		RS1/16S473J
R 1067		RS1/16S473J
R 1068		RS1/16S473J
R 1069		RS1/16S225J
R 1070		RS1/16S473J
R 1101		RS1/16S224J
R 1102		RS1/16S224J
R 1103		RS1/16S103J
R 1104		RS1/16S103J
R 1107		RS1/16S103J
R 1108		RS1/16S103J
R 1109		RS1/16S123J
R 1110		RS1/16S123J
R 1111		RS1/16S391J
R 1112		RS1/16S224J
R 1113		RS1/16S224J
R 1114		RS1/16S103J
R 1115		RS1/16S103J
R 1118		RS1/16S103J
R 1119		RS1/16S103J
R 1120		RS1/16S123J
R 1121		RS1/16S123J
R 1201		RS1/16S224J
R 1202		RS1/16S224J
R 1203		RS1/16S472J
R 1204		RS1/16S472J
R 1207		RS1/16S472J
R 1208		RS1/16S472J
R 1209		RS1/16S472J
R 1210		RS1/16S472J
R 1211		RS1/16S224J
R 1212		RS1/16S224J
R 1213		RS1/16S472J
R 1214		RS1/16S472J
R 1217		RS1/16S472J
R 1218		RS1/16S472J
R 1219		RS1/16S472J
R 1220		RS1/16S472J
R 1221		RS1/16S224J
R 1223		RS1/16S472J
R 1227		RS1/16S472J
R 1229		RS1/16S472J
R 1231		RS1/16S103J

CAPACITORS

C 1001	CEAL470M6R3

Circuit Symbol and No.	Part Name	Part No.
C 1002		CEAL470M6R3
C 1003		CKSRYB104K16
C 1004		CKSRYB104K16
C 1005		CEAL470M6R3
C 1006		CEAL470M6R3
C 1007		CEAL470M6R3
C 1008		CKSRYB104K16
C 1009		CEAL470M6R3
C 1010		CEAL470M6R3
C 1011		CEAL470M6R3
C 1012		CKSRYB104K16
C 1013		CKSRYB104K16
C 1014		CEAL470M6R3
C 1015		CKSRYB104K16
C 1016		CKSRYB104K16
C 1017		CKSRYB104K16
C 1018		CKSRYB104K16
C 1019		CEAL470M6R3
C 1020		CEAL470M6R3
C 1021		CEAL470M6R3
C 1022		CEAL470M6R3
C 1023		CKSRYB104K16
C 1024		CCSRCH120J50
C 1025		CCSRCH120J50
C 1027		CKSRYB104K16
C 1031		CKSRYB104K16
C 1032		CKSRYB104K16
C 1051		CEAL470M6R3
C 1052		CEAL470M6R3
C 1053		CKSRYB104K16
C 1054		CKSRYB104K16
C 1055		CEAL470M6R3
C 1056		CEAL470M6R3
C 1057		CEAL470M6R3
C 1058		CKSRYB104K16
C 1059		CEAL470M6R3
C 1060		CEAL470M6R3
C 1061		CEAL470M6R3
C 1062		CKSRYB104K16
C 1063		CKSRYB104K16
C 1064		CEAL470M6R3
C 1065		CKSRYB104K16
C 1066		CKSRYB104K16
C 1067		CKSRYB104K16
C 1068		CKSRYB104K16
C 1069		CEAL470M6R3
C 1070		CEAL470M6R3
C 1071		CEAL470M6R3
C 1072		CEAL470M6R3
C 1073		CKSRYB104K16
C 1075		CKSRYB103K50
C 1076		CKSRYB104K16
C 1081		CKSRYB104K16
C 1082		CKSRYB104K16
C 1101		CKSRYB105K10
C 1102		CKSRYB105K10
C 1103		CCSRCH220J50
C 1104		CCSRCH220J50
C 1105		CCSRCH221J50
C 1106		CCSRCH221J50

Circuit Symbol and No.	Part Name	Part No.
C 1107		CKSRYB103K50
C 1108		CKSRYB102K50
C 1109		CEAL101M6R3
C 1110		CKSRYB105K10
C 1111		CKSRYB105K10
C 1112		CCSRCH220J50
C 1113		CCSRCH220J50
C 1114		CCSRCH221J50
C 1115		CCSRCH221J50
C 1116		CKSRYB103K50
C 1117		CEALNP4R7M35
C 1118		CEALNP4R7M35
C 1119		CEALNP4R7M35
C 1120		CEALNP4R7M35
C 1201		CKSRYB105K10
C 1202		CKSRYB105K10
C 1203		CCSRCH681J50
C 1204		CCSRCH681J50
C 1205		CKSRYB182K50
C 1206		CKSRYB182K50
C 1207		CCSRCH101J50
C 1208		CCSRCH101J50
C 1209		CKSRYB103K50
C 1210		CKSQYB225K10
C 1211		CKSQYB225K10
C 1212		CKSRYB105K10
C 1213		CKSRYB105K10
C 1214		CCSRCH681J50
C 1215		CCSRCH681J50
C 1216		CKSRYB182K50
C 1217		CKSRYB182K50
C 1218		CCSRCH101J50
C 1219		CCSRCH101J50
C 1220		CKSRYB103K50
C 1221		CKSQYB225K10
C 1222		CKSQYB225K10
C 1223		CKSRYB105K10
C 1225		CCSRCH681J50
C 1227		CKSRYB182K50
C 1229		CCSRCH101J50
C 1231		CKSRYB103K50
C 1232		CKSQYB225K10

F

Unit Number:CWM7801 (AVX-MG2037ZF,MG2137ZF)

Unit Name:Panel PCB Unit

MISCELLANEOUS

IC 1801	IC	BU2099FV
Q 1801	Transistor	DTC144EU
Q 1802	Transistor	DTC144EU
Q 1804	Transistor	2SB1132
D 1807	LED	CL170PGCD(AB)
D 1808	LED	CL170PGCD(AB)
D 1809	LED	CL170PGCD(AB)
D 1810	LED	CL170PGCD(AB)
D 1811	LED	CL170PGCD(AB)

Circuit Symbol and No.	Part Name	Part No.
D 1812	LED	CL170PGCD(AB)
D 1815	LED	CL170PGCD(AB)
D 1816	LED	CL170PGCD(AB)
D 1817	Diode	DAN202U
D 1820	Diode	RB751V40
D 1831	LED	CL170PGCD(AB)
D 1832	LED	CL170PGCD(AB)
D 1833	LED	CL170PGCD(AB)
D 1834	LED	CL170PGCD(AB)
D 1835	LED	CL170PGCD(AB)
D 1836	LED	CL170PGCD(AB)
D 1837	LED	CL170PGCD(AB)
D 1838	LED	CL170PGCD(AB)
D 1839	LED	CL170PGCD(AB)
S 1801	Push Switch	CSG1126
S 1802	Push Switch	CSG1126
S 1803	Push Switch	CSG1126
S 1804	Push Switch	CSG1126
S 1805	Push Switch	CSG1126
S 1806	Push Switch	CSG1126
S 1807	Push Switch	CSG1126
S 1808	Push Switch	CSG1126

RESISTORS

R 1801		RS1/16S561J
R 1802		RS1/16S561J
R 1803		RS1/16S561J
R 1804		RS1/16S561J
R 1806		RS1/10S201J
R 1807		RS1/10S181J
R 1808		RS1/10S201J
R 1809		RS1/10S181J
R 1810		RS1/10S201J
R 1811		RS1/10S181J
R 1812		RS1/10S201J
R 1813		RS1/10S181J
R 1814		RS1/10S201J
R 1815		RS1/10S181J
R 1816		RS1/10S201J
R 1817		RS1/10S181J
R 1818		RS1/16S223J
R 1819		RS1/16S222J
R 1820		RS1/10S221J
R 1821		RS1/10S221J
R 1822		RS1/10S221J
R 1823		RS1/10S221J
R 1824		RS1/10S221J
R 1825		RS1/10S221J
R 1826		RS1/10S221J
R 1827		RS1/10S221J
R 1828		RS1/10S221J
R 1829		RS1/10S221J
R 1830		RS1/10S221J
R 1831		RS1/10S221J
R 1832		RS1/16S221J
R 1833		RS1/16S221J
R 1834		RS1/10S221J
R 1835		RS1/10S221J
R 1836		RS1/10S331J
R 1837		RS1/10S331J
R 1838		RS1/10S331J
R 1839		RS1/10S331J
R 1840		RS1/16S221J
R 1841		RS1/16S221J

CAPACITORS

C 1801		CKSRYB104K25
C 1802		CKSRYB104K16
C 1821		CKSQYB104K25
C 1822		CKSQYB104K25
C 1823		CKSQYB104K25
C 1824		CKSQYB104K25
C 1825		CKSQYB104K25
C 1826		CKSQYB104K25

F

Unit Number:CWM7806 (AVX-MG2237ZF,MG2337ZF)
Unit Name:Panel PCB Unit

MISCELLANEOUS

IC 1801	IC	BU2099FV
Q 1801	Transistor	DTC144EU
Q 1802	Transistor	DTC144EU
Q 1804	Transistor	2SB1132
D 1807	Chip LED	LWM673-Q2R2-4C4D
D 1808	Chip LED	LWM673-Q2R2-4C4D
D 1809	Chip LED	LWM673-Q2R2-4C4D
D 1810	Chip LED	LWM673-Q2R2-4C4D
D 1811	Chip LED	LWM673-Q2R2-4C4D
D 1812	Chip LED	LWM673-Q2R2-4C4D
D 1815	Chip LED	LWM673-Q2R2-4C4D
D 1816	Chip LED	LWM673-Q2R2-4C4D
D 1817	Diode	DAN202U
D 1820	Diode	RB751V40
D 1831	Chip LED	LWM673-Q2R2-4C4D
D 1832	Chip LED	LWM673-Q2R2-4C4D
D 1833	Chip LED	LWM673-Q2R2-4C4D
D 1834	Chip LED	LWM673-Q2R2-4C4D
D 1835	Chip LED	LWM673-Q2R2-4C4D
D 1836	Chip LED	LWM673-Q2R2-4C4D
D 1837	Chip LED	LWM673-Q2R2-4C4D
D 1838	Chip LED	LWM673-Q2R2-4C4D
D 1839	Chip LED	LWM673-Q2R2-4C4D
S 1801	Push Switch	CSG1126
S 1802	Push Switch	CSG1126
S 1803	Push Switch	CSG1126
S 1804	Push Switch	CSG1126
S 1805	Push Switch	CSG1126
S 1806	Push Switch	CSG1126
S 1807	Push Switch	CSG1126
S 1808	Push Switch	CSG1126

RESISTORS

R 1801		RS1/16S561J
R 1802		RS1/16S561J
R 1803		RS1/16S561J

Circuit Symbol and No.	Part Name	Part No.
R 1804		RS1/16S561J
R 1806		RS1/10S391J
R 1807		RS1/10S681J
R 1808		RS1/10S391J
R 1809		RS1/10S681J
R 1810		RS1/10S391J
R 1811		RS1/10S681J
R 1812		RS1/10S391J
R 1813		RS1/10S681J
R 1814		RS1/10S391J
R 1815		RS1/10S681J
R 1816		RS1/10S391J
R 1817		RS1/10S681J
R 1818		RS1/16S223J
R 1819		RS1/16S222J
R 1820		RS1/10S681J
R 1821		RS1/10S391J
R 1822		RS1/10S681J
R 1823		RS1/10S391J
R 1824		RS1/10S681J
R 1825		RS1/10S391J
R 1826		RS1/10S681J
R 1827		RS1/10S391J
R 1828		RS1/10S681J
R 1829		RS1/10S391J
R 1830		RS1/10S681J
R 1831		RS1/10S391J
R 1832		RS1/16S391J
R 1833		RS1/16S331J
R 1834		RS1/10S102J
R 1835		RS1/10S561J
R 1836		RS1/10S391J
R 1837		RS1/10S681J
R 1838		RS1/10S391J
R 1839		RS1/10S681J
R 1840		RS1/16S391J
R 1841		RS1/16S331J
CAPACITORS		
C 1801		CKSRYB104K25
C 1802		CKSRYB104K16
C 1803		CKSRYB104K16
C 1804		CKSQYB104K25
C 1805		CKSRYB104K16
C 1811		CKSQYB104K25
C 1812		CKSQYB104K25
C 1813		CKSQYB104K25
C 1814		CKSQYB104K25
C 1815		CKSQYB104K25
C 1816		CKSQYB104K25
C 1821		CKSQYB104K25
C 1822		CKSQYB104K25
C 1823		CKSQYB104K25
C 1824		CKSQYB104K25
C 1825		CKSQYB104K25
C 1826		CKSQYB104K25

Circuit Symbol and No.	Part Name	Part No.

Unit Number:CWM9123
Unit Name:Module Unit

MISCELLANEOUS

IC 4001	IC	IR3Y29B
IC 4062	IC	TC7S32FU
IC 4081	IC	NJM2286V
IC 4082	IC	NJM2235V
IC 4101	IC	NJM082BV
IC 4121	IC	M62354GP
IC 4171	IC	NJM062V
IC 4301	IC	TC160G11AF-1146
IC 4303	IC	NJM2107F
IC 4351	IC	TC7W02FU
Q 4101	Transistor	FMY3A
Q 4102	Transistor	FMY4A
Q 4161	Transistor	2SA1577
Q 4162	Transistor	2SC3518-Z
Q 4163	Transistor	2SC3518-Z
Q 4164	Transistor	DTC114EU
Q 4201	Transistor	2SC4116
Q 4202	Transistor	2SC4116
Q 4203	Transistor	2SA1586
Q 4204	Transistor	2SA1586
Q 4301	Transistor	2SC4097
D 4181	Diode	MA728
D 4182	Diode	MA728
D 4183	Diode	MA728
D 4201	Diode	MA8051(M)
D 4202	Diode	MA8051(M)
D 4203	Diode	MA8051(M)
D 4204	Diode	MA8051(M)
D 4205	Diode	MA8051(M)
D 4206	Diode	MA8051(M)
D 4207	Diode	MA8051(M)
D 4212	Diode	MA8051(M)
D 4213	Diode	MA8051(M)
D 4301	Diode	MA111
D 4302	Diode	1SV231
D 4303	Diode	MA111
L 4001	Inductor	LCTA100J3225
L 4002	Inductor	LCTA100J3225
L 4081	Inductor	LCTA100J3225
L 4101	Inductor	LCTA101J3225
L 4102	Inductor	LCTA101J3225
L 4121	Inductor	LCTB100K2125
L 4122	Inductor	LCTB100K2125
L 4161	Coil	CTH1195
L 4162	Coil	CTH1195
L 4171	Inductor	LCTA101J3225
L 4301	Inductor	LCTA150J3225
L 4302	Coil	CTE1157
L 4303	Inductor	CTF1306
L 4304	Inductor	LCTB100K2125
L 4305	Chip-Inductor	LCTA2R2J3225
L 4306	Inductor	LCTB100K2125
L 4307	Inductor	CTF1306
L 4308	Inductor	CTF1306
L 4310	Inductor-Array	CTF1421

Circuit Symbol and No.	Part Name	Part No.
L 4311	Inductor-Array	CTF1421
L 4312	Inductor	CTF1306
L 4313	Inductor	CTF1306
T 4161	Transformer	CTT1114
T 4162	Transformer	CTT1114
VR4002	Semi-fixed 33kΩ(B)	CCP1426
VR4003	Semi-fixed 33kΩ(B)	CCP1426
VR4004	Semi-fixed 33kΩ(B)	CCP1426
VR4005	Semi-fixed 33kΩ(B)	CCP1426
VR4006	Semi-fixed 10kΩ(B)	CCP1423
VR4101	Semi-fixed 10kΩ(B)	CCP1423
FU4161	Fuse 1.6A	CEK1256
EF4305	EMI Filter	CCG1060

RESISTORS

R 4014		RS1/16S6202D
R 4015		RS1/16S153J
R 4016		RS1/16S273J
R 4017		RS1/16S273J
R 4018		RS1/16S473J
R 4019		RS1/16S273J
R 4020		RS1/16S513J
R 4022		RS1/16S333J
R 4023		RS1/16S473J
R 4024		RS1/16S333J
R 4025		RS1/16S473J
R 4026		RS1/16S101J
R 4027		RS1/16S101J
R 4028		RS1/16S561J
R 4029		RS1/16S102J
R 4031		RS1/16S393J
R 4032		RS1/16S513J
R 4033		RS1/16S563J
R 4034		RS1/16S473J
R 4036		RS1/16S682J
R 4037		RS1/16S682J
R 4038		RS1/16S682J
R 4039		RS1/16S1802D
R 4040		RS1/16S124J
R 4041		RS1/16S2402D
R 4042		RS1/16S3602D
R 4047		RS1/16S101J
R 4048		RS1/16S101J
R 4049		RS1/16S101J
R 4061		RS1/16S473J
R 4081		RS1/16S105J
R 4082		RS1/16S105J
R 4083		RS1/16S105J
R 4084		RS1/16S104J
R 4085		RS1/16S473J
R 4087		RS1/16S473J
R 4101		RS1/16S303J
R 4102		RS1/16S913J
R 4103		RS1/16S113J
R 4104		RS1/16S473J
R 4105		RS1/16S363J
R 4106		RS1/16S473J
R 4107		RS1/16S101J
R 4108		RS1/16S153J
R 4109		RS1/16S100J

Circuit Symbol and No.	Part Name	Part No.
R 4110		RS1/16S153J
R 4111		RS1/16S100J
R 4123		47kΩCCN1131
R 4161		RS1/16S102J
R 4162		RS1/10S222J
R 4163		RS1/4S751J
R 4164		RS1/4S821J
R 4171		RS1/16S103J
R 4172		RS1/16S104J
R 4173		RS1/16S104J
R 4174		RS1/16S104J
R 4175		RS1/16S105J
R 4176		RS1/16S103J
R 4177		RS1/16S103J
R 4178		RS1/16S103J
R 4201		RS1/16S104J
R 4202		RS1/16S104J
R 4205		RS1/16S102J
R 4206		RS1/16S102J
R 4207		RS1/16S472J
R 4208		RS1/16S472J
R 4209		RS1/16S102J
R 4210		RS1/16S102J
R 4211		RS1/16S472J
R 4222		RS1/16S472J
R 4303		RS1/16S621J
R 4305	680Ω	CCN1119
R 4306	680Ω	CCN1119
R 4308		RS1/16S105J
R 4309		RS1/16S1R0J
R 4310		RS1/16S331J
R 4311		RS1/16S272J
R 4312		RS1/16S332J
R 4314		RS1/16S153J
R 4315		RS1/16S105J
R 4316		RS1/16S103J
R 4317		RS1/16S123J
R 4318		RS1/16S683J
R 4319		RS1/16S472J
R 4320		RS1/16S563J
R 4321		RS1/16S332J
R 4322		RS1/16S221J
R 4325		RS1/16S220J
R 4326		RS1/16S750J
R 4328		RS1/16S0R0J
R 4329		RS1/16S0R0J
R 4332		1kΩCCN1120
R 4333		1kΩCCN1120
R 4334		RS1/16S0R0J
R 4335		RS1/16S0R0J
R 4351		RS1/16S222J

CAPACITORS

C 4001	CKSRYB103K50
C 4002	CKSRYB104K25
C 4003	CKSRYB103K50
C 4004	CKSRYB473K50
C 4005	CKSRYB104K25
C 4007	CKSRYB103K50
C 4008	CKSRYB103K50

Circuit Symbol and No.	Part Name	Part No.
C 4010		CKSRYB105K10
C 4011		CKSRYB105K10
C 4012		CKSQYB105K16
C 4013		CSZSR330M10
C 4014		CKSRYB105K10
C 4015		CKSRYB103K50
C 4016		CKSRYB103K50
C 4017		CKSRYB103K50
C 4018		CKSRYB105K10
C 4019		CKSRYB103K50
C 4020		CKSRYB103K50
C 4023		CKSRYB103K50
C 4024		CKSRYB103K50
C 4026		CKSRYB104K25
C 4027		CKSRYB104K25
C 4028		CKSRYB104K25
C 4029		CKSRYB105K10
C 4030		CSZSR330M10
C 4031		CKSRYB682K50
C 4032		CKSQYB105K16
C 4033		CKSRYB105K10
C 4034		CCSRCH821J50
C 4063		CKSRYB104K25
C 4081		CSZSR330M10
C 4082		CKSRYB104K25
C 4083		CCSRCH101J50
C 4084		CCSRCH101J50
C 4085		CCSRCH101J50
C 4086		CKSRYB105K10
C 4087		CKSRYB105K10
C 4088		CKSRYB105K10
C 4089		CKSRYB104K25
C 4090		CCSRCH101J50
C 4091		CKSRYB105K10
C 4092		CKSRYB104K25
C 4101		CSZSR330M10
C 4102		CKSRYB103K50
C 4103		CSZSR4R7M25
C 4104		CKSRYB103K50
C 4105		CKSQYB105K16
C 4106		CKSQYB105K16
C 4107		CKSRYB104K25
C 4108		CSZSR4R7M25
C 4121		CSZS100M10
C 4122		CKSRYB104K25
C 4123		CKSRYB104K25
C 4124		CSZS100M10
C 4125		CKSRYB104K25
C 4130		CKSRYB104K25
C 4136		CKSRYB105K10
C 4157		CKSRYB104K25
C 4161		CKSRYB104K25
C 4162		CKSRYB473K50
C 4163		CKSRYB104K25
C 4164	100µF/10V	CCH1332
C 4165		CKSQYB225K10
C 4166		CFHSN104J50
C 4167	22pF	CCG1140
C 4168	22pF	CCG1140
C 4171		CSZSR330M10

Circuit Symbol and No.	Part Name	Part No.
C 4172		CKSRYB104K25
C 4173		CFHS473J16
C 4174		CKSRYB105K10
C 4175		CKSRYB472K50
C 4180		CKSRYB102K50
C 4181		CKSRYB102K50
C 4182		CKSRYB102K50
C 4183		CKSRYB102K50
C 4184		CCSRCH101J50
C 4185		CCSRCH101J50
C 4186		CCSRCH101J50
C 4187		CCSRCH101J50
C 4190		CKSRYB102K50
C 4205		CKSRYB102K50
C 4206		CKSRYB102K50
C 4207		CKSRYB102K50
C 4208		CKSRYB102K50
C 4209		CKSRYB102K50
C 4210		CKSRYB102K50
C 4211		CKSRYB102K50
C 4212		CKSRYB102K50
C 4213		CKSRYB102K50
C 4214		CKSRYB102K50
C 4215		CKSRYB102K50
C 4216		CKSRYB102K50
C 4217		CKSRYB102K50
C 4302		CCSRCH561J50
C 4303		CKSRYB104K25
C 4304		CSZSR330M10
C 4305		CKSRYB104K25
C 4306		CKSRYB104K25
C 4307		CCSRCH391J50
C 4308		CCSRCH221J50
C 4309		CKSRYB102K50
C 4310		CCSRCH221J50
C 4311		CKSRYB104K25
C 4312		CKSRYB184K10
C 4313		CKSRYB472K50
C 4314		CKSRYB102K50
C 4315		CKSRYB104K25
C 4316		CKSRYB104K25
C 4317		CKSRYB104K25
C 4318		CKSRYB104K25
C 4321		CKSRYB104K25
C 4323		CKSRYB104K25
C 4324		CSZSR4R7M25
C 4325		CKSRYB103K50
C 4326	100µF/10V	CCH1332
C 4327		CKSRYB103K50
C 4328		CSZSR4R7M25
C 4329		CKSRYB103K50
C 4351		CKSRYB104K25
C 4352		CCSRCH102J50

G

Unit Number:CWM7802
(AVX-MG2037ZF,MG2137ZF)
Unit Name:Keyboard Unit

Circuit Symbol and No.	Part Name	Part No.
MISCELLANEOUS		
Q 1851	Transistor	DTC144EU
Q 1852	Transistor	DTC144EU
D 1851	LED	CL170PGCD(AB)
D 1852	LED	CL170PGCD(AB)
D 1853	LED	CL170PGCD(AB)
D 1854	LED	CL170PGCD(AB)
D 1855	LED	CL170PGCD(AB)
D 1856	LED	CL170PGCD(AB)
D 1857	LED	CL170PGCD(AB)
D 1858	Diode	DAN202U
D 1859	Diode	RB751V40
D 1860	Diode	RB751V40
VR1851	Switch(POWER/VOLUME)	CSD1064
RESISTORS		
R 1851		RS1/10S101J
R 1852		RS1/10S101J
R 1853		RS1/10S101J
R 1854		RS1/10S101J
R 1855		RS1/10S101J
R 1856		RS1/10S101J
R 1857		RS1/10S101J
R 1858		RS1/10S101J
R 1859		RS1/10S101J
R 1860		RS1/10S101J
R 1861		RS1/10S101J
R 1862		RS1/10S101J
R 1863		RS1/10S101J
R 1864		RS1/10S101J

G

Unit Number:CWM7807 (AVX-MG2237ZF,MG2337ZF)
Unit Name:Keyboard Unit

Circuit Symbol and No.	Part Name	Part No.
MISCELLANEOUS		
Q 1851	Transistor	DTC144EU
Q 1852	Transistor	DTC144EU
D 1851	Chip LED	LWM673-Q2R2-4C4D
D 1852	Chip LED	LWM673-Q2R2-4C4D
D 1853	Chip LED	LWM673-Q2R2-4C4D
D 1854	Chip LED	LWM673-Q2R2-4C4D
D 1855	Chip LED	LWM673-Q2R2-4C4D
D 1856	Chip LED	LWM673-Q2R2-4C4D
D 1857	Chip LED	LWM673-Q2R2-4C4D
D 1858	Diode	DAN202U
D 1859	Diode	RB751V40
D 1860	Diode	RB751V40
VR1851	Switch(POWER/VOLUME)	CSD1064
RESISTORS		
R 1851		RS1/10S391J
R 1852		RS1/10S391J
R 1853		RS1/10S101J
R 1854		RS1/10S221J
R 1855		RS1/10S101J
R 1856		RS1/10S221J
R 1857		RS1/10S101J
R 1858		RS1/10S221J
R 1859		RS1/10S101J
R 1860		RS1/10S221J
R 1861		RS1/10S121J
R 1862		RS1/10S151J
R 1863		RS1/10S121J
R 1864		RS1/10S151J

Tuner Connector Unit
Consists of
Tuner PCB
Connector PCB

D E

Unit Number:
Unit Name:Tuner Connector Unit

MISCELLANEOUS		
L 1401	Inductor	LCTA4R7J3225
L 1402	Coil	CTB1103
L 2801	Inductor	CTF1379
L 2802	Inductor	CTF1379
L 2803	Inductor	CTF1379
L 2804	Inductor	CTF1379
L 2806	Inductor	CTF1379
L 2807	Inductor	CTF1379
L 2808	Inductor	CTF1379
L 2809	Inductor	CTF1379
L 2810	Inductor	CTF1379
L 2811	Inductor	CTF1379
L 2813	Inductor	CTF1379
L 2815	Inductor	CTF1379
L 2816	Inductor	CTF1306
L 2817	Inductor	CTF1306
L 2820	Inductor	CTF1379
L 2821	Inductor	CTF1379
L 2822	Inductor	CTF1306
L 2823	Inductor	CTF1306
L 2824	Inductor	CTF1379
L 2825	Inductor	CTF1379
L 2826	Inductor	CTF1379
	FM/AM Tuner Unit	CWE1635
AR1401	Surge Protrctor	DSP-201M-S00B
RESISTORS		
R 1401		RS1/16S222J
R 1403		RS1/16S473J
R 1404		RS1/16S473J
R 2801		RS1/16S750J
R 2802		RS1/16S750J
R 2803		RS1/16S750J
R 2804		RS1/16S750J
R 2806		RS1/16S0R0J
R 2809		RS1/16S0R0J
CAPACITORS		

Circuit Symbol and No.	Part Name	Part No.
C 1401		CKSQYB103K50
C 1402		CKSRYB103K50
C 1403		CKSRYB682K50
C 1404		CKSRYB332K50
C 1405		CCSRCH820J50
C 1406		CKSYB105K16
C 1407		CCSRCH101J50
C 2816		CKSRYB102K50
C 2817		CKSRYB102K50
C 2818		CKSRYB102K50
C 2819		CKSRYB102K50

H

Unit Number:CWX2589
Unit Name:Control Unit(G2F)

MISCELLANEOUS

IC 201	IC	UPD63711GC
IC 301	IC	BD7962FM
IC 302	IC	S-818A33AUC-BGN
IC 303	IC	BA05SFP
IC 501	IC	SM5903BFP
IC 503	IC	PD4501B
IC 504	IC	TC74VHCT08AFT
IC 505	IC	TC74VHC541FT
IC 507	IC	MSM51V17400F6TFT
IC 702	IC	PD5705B
Q 101	Transistor	2SB1132
Q 601	Transistor	DTC114EK
Q 602	Transistor	DTA123JK
Q 603	Transistor	DTC314TK
Q 604	Transistor	DTC314TK
Q 702	Transistor	UMD3N
D 101	Diode	1SS355
D 301	Diode	S1G-6904G2P
D 303	Diode	S1G-6904G2P
D 601	Chip Diode	MA151WA
L 201	Inductor	CTF1306
L 601	Inductor	CTF1295
TH701	Thermistor	CCX1015
X 201	Radiator 16.93MHz	CSS1581
X 701	Radiator 10.00MHz	CSS1428

RESISTORS

R 101	RS1/8S120J
R 102	RS1/8S100J
R 103	RS1/16S222J
R 104	RS1/16S102J
R 105	RS1/16S0R0J
R 201	RS1/16S104J
R 202	RAB4CQ681J
R 203	RS1/16S0R0J
R 204	RS1/16S0R0J
R 205	RS1/16S103J
R 206	RS1/16S393J
R 207	RS1/16S0R0J
R 209	RS1/16S0R0J

Circuit Symbol and No.	Part Name	Part No.
R 210		RS1/16S0R0J
R 211		RS1/16S0R0J
R 212		RS1/16S562J
R 213		RS1/16S153J
R 214		RS1/16S123J
R 216		RS1/16S0R0J
R 217		RS1/16S0R0J
R 220		RS1/16S471J
R 221		RS1/16S681J
R 298		RS1/16S0R0J
R 301		RS1/16S103J
R 302		RS1/16S153J
R 303		RS1/16S103J
R 304		RS1/16S103J
R 305		RS1/16S272J
R 306		RS1/16S272J
R 307		RS1/16S182J
R 308		RS1/16S272J
R 309		RS1/16S682J
R 310		RS1/16S822J
R 311		RS1/16S103J
R 312		RS1/16S681J
R 313		RS1/16S103J
R 314		RS1/16S153J
R 315		RS1/16S153J
R 316		RS1/16S153J
R 317		RS1/16S103J
R 318		RS1/16S103J
R 319		RS1/16S102J
R 320		RS1/16S392J
R 322		RS1/16S103J
R 323		RS1/16S103J
R 324		RS1/16S103J
R 325		RS1/16S103J
R 502		RS1/16S102J
R 503		RAB4CQ681J
R 504		RS1/16S331J
R 508		RS1/16S392J
R 511		RS1/16S0R0J
R 512		RS1/16S333J
R 513		RS1/16S473J
R 516		RS1/16S331J
R 601		RS1/16S102J
R 602		RS1/16S102J
R 603		RS1/16S223J

RESISTORS

R 604	RS1/16S223J
R 605	RS1/16S102J
R 606	RS1/16S681J
R 607	RS1/16S681J
R 608	RS1/16S102J
R 609	RAB4CQ681J
R 701	RAB4CQ104J
R 702	RS1/16S222J
R 703	RS1/16S681J
R 704	RAB4CQ222J
R 705	RAB4CQ681J
R 706	RS1/16S473J
R 707	RS1/16S473J

Circuit Symbol and No.	Part Name	Part No.
R 708		RS1/16S222J
R 709		RS1/16S222J
R 711		RAB4CQ104J
R 712		RS1/16S473J
R 713		RS1/16S681J
R 714		RS1/16S473J
R 715		RAB4CQ222J
R 716		RS1/16S103J
R 718		RS1/16S473J
R 719		RS1/16S104J
R 720		RS1/16S103J
R 724		RS1/16S104J
R 727		RS1/16S0R0J
R 734		RS1/16S104J
R 736		RS1/16S681J
R 739		RS1/16S473J
R 741		RS1/16S104J
R 742		RS1/16S222J
R 743		RS1/16S681J
R 758		RS1/16S822J
R 759		RS1/16S103J
R 760		RS1/16S433J
R 767		RS1/16S154J
R 775		RAB4CQ681J

CAPACITORS

C 101		CKSRYB103K25
C 102		CKSRYB104K25
C 103		CEVL101M10
C 104		CEVL470M6R3
C 105		CKSRYB224K16
C 106		CKSRYB224K16
C 107		CKSRYB224K16
C 201		CKSRYB104K25
C 202		CEVL220M16
C 203		CKSRYB473K25
C 204		CKSRYB182K50
C 205		CKSRYB104K25
C 206		CKSRYB152K50
C 207		CKSRYB224K16
C 208		CCSRCH180J50
C 209		CCSRCK2R0C50
C 210		CCSRCH181J50
C 211		CCSRCH510J50
C 212		CKSRYB682K50
C 213		CKSRYB104K25
C 214		CKSRYB104K25
C 215		CKSRYB103K25
C 216		CKSRYB104K25
C 217		CKSRYB104K25
C 218		CKSRYB104K25
C 219		CKSRYB104K25
C 220		CKSRYB104K25
C 221		CEVL470M6R3
C 222		CKSRYB104K25
C 223		CKSRYB102K50
C 224		CKSRYB104K25
C 225		CKSRYB103K25
C 226		CCSRCH510J50
C 301		CEVL101M10

Circuit Symbol and No.	Part Name	Part No.
C 302		CKSRYB224K16
C 303		CKSRYB224K16
C 304	10µF/10V	CCH1349
C 305		CKSRYB224K16
C 306	10µF/10V	CCH1349
C 307		CKSRYB224K16
C 309		CKSYB475K16
C 501		CKSRYB102K50
C 502		CKSRYB104K25
C 503		CKSRYB104K25
C 504		CKSRYB104K25
C 505		CKSRYB104K25
C 506		CKSRYB104K25
C 508		CKSRYB104K25
C 509		CKSRYB104K25
C 601		CEVL220M6R3
C 602		CEVL220M6R3
C 701		CKSRYB104K25
C 702		CKSRYB104K25
C 703		CKSRYB103K25
C 704		CKSRYB103K25
C 705		CKSRYB104K25
C 706		CKSRYB104K25
C 707		CKSRYB103K25
C 708		CKSRYB473K25

J

Unit Number:
Unit Name:PCB Unit(Load)

Q 21	Photo-transistor	CPT231SCTU
Q 22	Photo-transistor	CPT231SCTU
L 21	Inductor	LCYBR15J1608
L 22	Inductor	LCYBR15J1608
S 21	Spring Switch(LOAD1)	CSN1051
S 22	Spring Switch(LOAD2)	CSN1052

I

Unit Number:CWX2614
Unit Name:PCB Unit(LED)

D 31	Chip LED	CL205IRXTU
D 32	Chip LED	CL205IRXTU
S 31	Spring Switch(CAMLOAD)	CSN1052
S 32	Spring Switch(CAMEOK)	CSN1052
R 31		RS1/16S0R0J

L

Unit Number:CWX2611
Unit Name:PCB Unit

L 1	Inductor	CTF1389
S 41	Spring Switch(LOAD3)	CSN1051

K

Circuit Symbol and No. Part Name Part No.

Unit Number:CWX2613
Unit Name:PCB Unit(Side)

MISCELLANEOUS

S 11	Spring Switch(CAMCLMP)	CSN1052
VR11	Semi-fixed 1kΩ(B)	CCP1338

RESISTORS

R 11		RS1/16S562J
R 12		RS1/16S562J
R 13		RS1/10S391J
R 14		RS1/10S391J
R 15		RS1/16S0R0J
R 16		RS1/16S0R0J

CAPACITORS

C 12		CKSRYB104K25

M

Unit Number:
Unit Name:PCB Unit(M2 Unit)

IC 1	IC	BA6849FS
S 1	Switch(HOME)	CSN1057
S 2	Switch(CLAMP)	CSN1057

RESISTORS

R 1		RS1/16S221J
R 2		RS1/16S221J
R 3		RS1/16S4R7J
R 4		RS1/16S1R0J

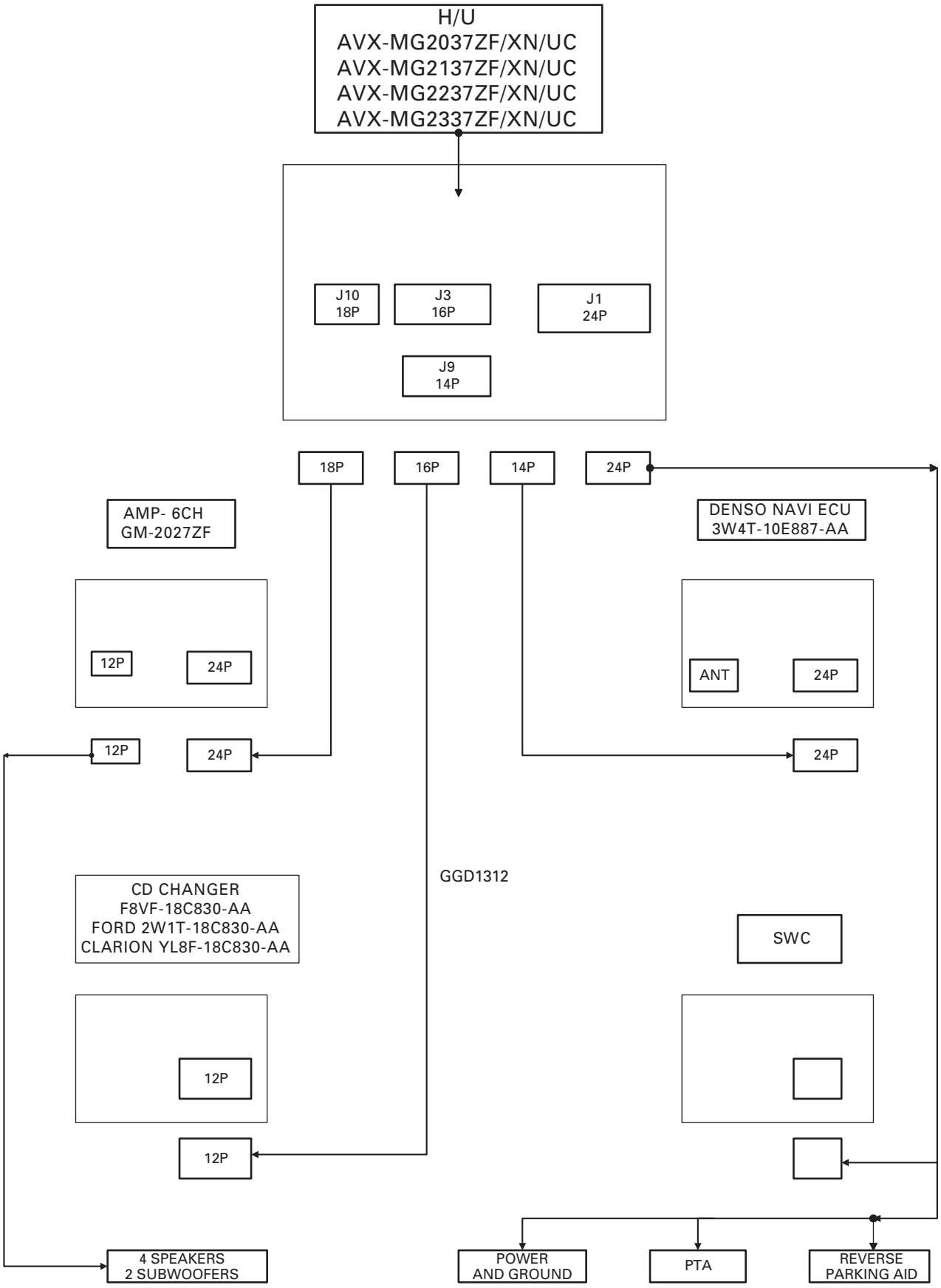
CAPACITORS

C 1		CKSRYB104K16

Miscellaneous Parts List

M 1	Motor Unit(-A)(CAMGEAR)	CXC1144
M 2	Motor Unit(-B)(ELEVATION)	CXC1145
M 3	Motor Unit(-A)(CRG)	CXC1143
VR1	Variable Resistor 10kΩ	CCW1023
	PU Unit(Service)(PX1)	CXX1568
M 901	Motor Unit(FLAP)	CXC1191

6. ADJUSTMENT
6.1 CONNECTION DIAGRAM



6.2 CD ADJUSTMENT

1) Precautions on Adjustment

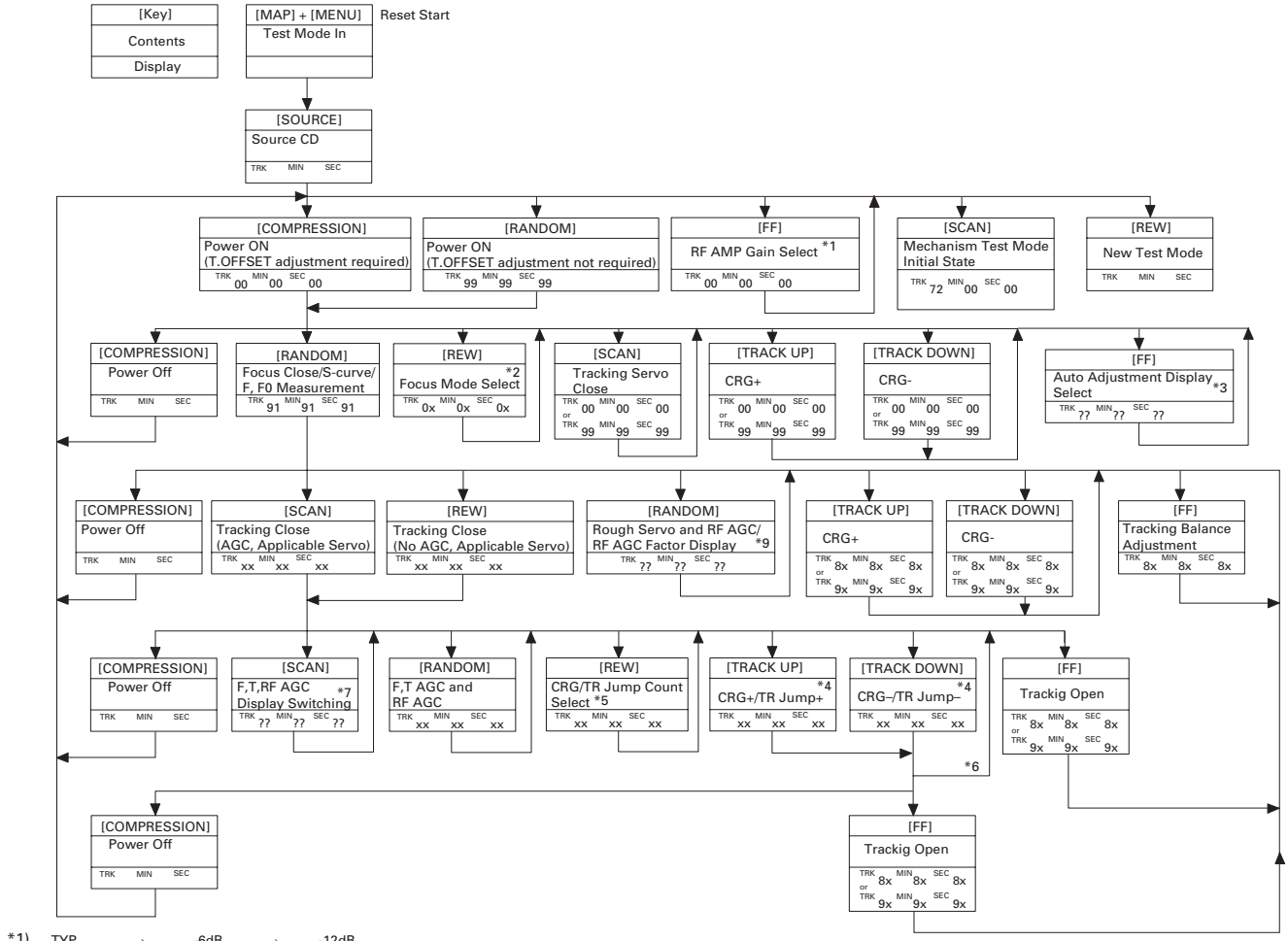
- **Before you perform test mode of the unit, be sure to connect Navigation ECU to the unit.**
- The unit employs a single voltage (+5V) for the regulator, thus the reference potential of the signal is REFO (approximately 2.5V) rather than GND.
  Inadvertent contact of REFO and GND during adjustment can result not only in disabling normal potential measurement but also in exposing the pickup to strong impacts due to malfunctioning of the servo. Therefore, you are requested to observe the following precautions.
- Make sure that the negative probe of the measuring instrument is not connected to REFO or GND. Special care must be exercised so that the channel 1 negative probe may not be connected to the oscilloscope and the channel 2 negative probe to GND. Since the frame of the measuring instrument is usually at the same potential as the negative probe, the frame of the measuring instrument must be changed to floating status.
  When REFO is inadvertently connected to GND, you must immediately turn off the regulator or power supply.
- The regulator must be turned off before mounting or dismounting filters or wiring materials.
- You should not start adjustment or measurement immediately after the regulator is turned on. It is recommended to run the player for approximately one minute so that it may stabilize.
- When the test mode is turned on, various protective functions from the software become unavailable. Thus, you must make sure that undesirable electric or mechanical shocks are not be given to the system.
- This model employs a photo-transistor for detecting discs at their loading or ejection. Thus, if its outer case is removed during repair work and internal parts are exposed to light of strong intensity, malfunctions including the following can result:
  * The eject button becomes inoperable during play. Pressing the eject button does not eject a disc and play is continued.
  * Loading becomes unavailable.

  If a malfunction is recognized, appropriate remedial actions must be taken. Such actions include changing the light source position, changing the unit position and applying a cover to the photo-transistor.
- When you press the EJECT key to eject a disc, you must not touch any other key until the ejection is complete.
- If you press the TRACK UP or TRACK DOWN for the focus search in the test mode, you must turn the power off immediately. (Otherwise, the lens will be forced to stick to the top or bottom, potentially resulting in the burning of the actuator.)

2) Description of the Test Mode

- Turning on the Test Mode
  Press the [MAP] and [MENU] keys simultaneously to turn on the ACC and the backup.
- Ending the Test Mode
  Apply the reset (the reset will be applied two minutes after the power is turned from off).
- Operation of TR JUMPs (except 100TR) continues after your finger has left the key. CRG, MOVE and 100TR JUMP are forced to the tracking close mode as soon as the key is released.
- Turning the power on or off resets the JUMP MODE to the Single TR.

● Flow Chart



*1) TYP → -6dB → -12dB

*2) Focus Close → S.Curve Check → LD Off

*3) F.Offset Display →RF Offset Display→ T.Bal Display → Rough Servo.

(F.Cancel value
= (Upper 8 bits of the setting (7F[H] to 80[H] + 128)/4
= 63[D] to 32[D] to 00[D]).

*4) Single TR /4TR / 10TR / 32TR / 100TR

*5) Single TR → 4 TR → 10 TR → 32 TR → 100 TR → CRG Move
9X(8X):91(81) 92(82) 93(83) 94(84) 95(85) 96(86)

*6) Only for the CRG Move and 100TR modes

*7) Track No. / Min / Sec → F.AGC Gain →T.AGC Gain →RF AGC Gain

(F.T. AGC Gain = (Current value/Initial value) x 20)

[Key]	Operation	
	Test Mode	New Test Mode
[COMPRESSION]	Power ON/OFF	Error occurrence time/ Cause display switching
[TRACK UP]	CRG+/TR Jump+ (Toward outer perimeter)	TRACK UP
[TRACK DOWN]	CRG-/TR Jump- (Toward inner perimeter)	TRACK DOWN
[SCAN]	Tracking close and AGC and Applicable servo / AGC , AGC display switching	SCAN
[FF]	RF gain select / Offset adjustment display/ Tracking balance adjustment / Tracking open	FF
[RANDOM]	Focus Close, S.Curve / Rough Servo/ RF AGC / F,T, RF AGC	RANDOM
[REW]	Focus mode select / Tracking close / CRG·TR jump select	REW
[LOAD]	DISC load	DISC load
[EJECT]	DISC eject	DISC eject

Note) Before you perform test mode of the unit, be sure to connect Navigation ECU to the unit.

*8) CRG motor voltage : 2 [V]

*9)The first press displays the RF AGC coefficient. The second one or after performs the rough servo and RF AGC adjustments, and then displays the RF AGC coefficient.

- In all TR Jump modes except for 100TR, track jump operation continues even after the key is released.
  In the CRG Move and 100TR Jump modes, the tracking servo loop closes at the same time when the key is released.
- When the power is turned off and on, the jump mode, the RF AMP gain setting, and the auto adjustment values are reset to the Single TR (91),0dB, and the factory setting respectively.

Note: Sound is unavailable even after the tracking has been closed (this trouble results when the IC for the STS is not controlled in the test mode).
Note: When you pressed the [TRACK UP] or [TRACK DOWN] key during the Focus Search, you must turn the power off immediately (otherwise, the lens can stick resulting in actuator damages).

6.3 CHECKING THE GRATING AFTER CHANGING THE PICKUP UNIT

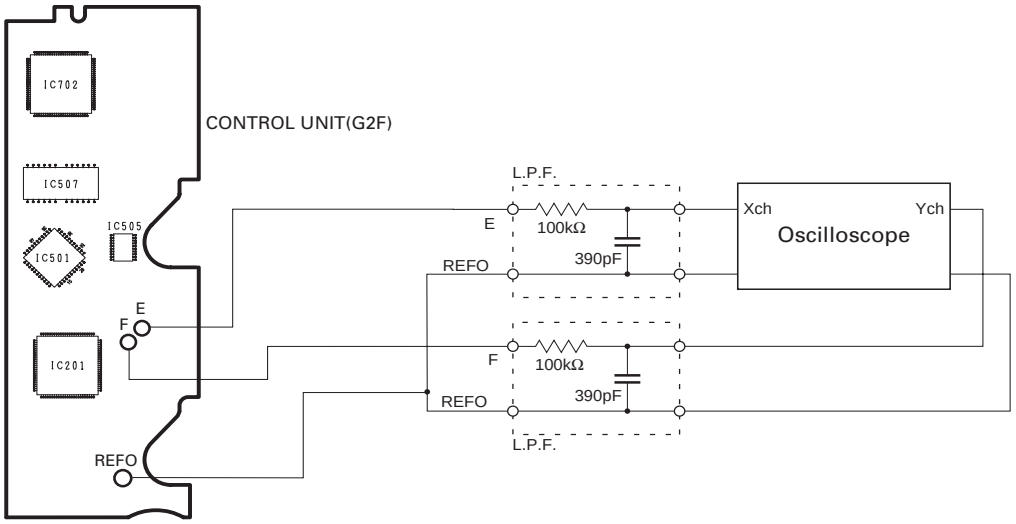
• **Note :**
The grating angle of the PU unit cannot be adjusted after the PU unit is changed. The PU unit in the CD mechanism module is adjusted on the production line to match the CD mechanism module and is thus the best adjusted PU unit for the CD mechanism module. Changing the PU unit is thus best considered as a last resort. However, if the PU unit must be changed, the grating should be checked using the procedure below.

• **Purpose :**
To check that the grating is within an acceptable range when the PU unit is changed.

• **Symptoms of Mal-adjustment :**
If the grating is off by a large amount symptoms such as being unable to close tracking, being unable to perform track search operations, or taking a long time for track searching.

• **Method :**

• Measuring Equipment	• Oscilloscope, Two L.P.F.
• Measuring Points	• E, F, REFO
• Disc	• ABEX TCD-784
• Mode	• TEST MODE



• **Checking Procedure**

1. In test mode, load the disc and switch the 5V regulator on.
2. Using the **TRACK UP** and **TRACK DOWN** buttons, move the PU unit to the innermost track.
3. Press key **RANDOM** to close focus, the display should read "91". Press key **FF** to implement the tracking balance adjustment the display should now read "81". Press key **RANDOM** 4 times. The display will change, returning to "81" on the fourth press.
4. As shown in the diagram above, monitor the LPF outputs using the oscilloscope and check that the phase difference is within 75° . Refer to the photographs supplied to determine the phase angle.
5. If the phase difference is determined to be greater than 75° try changing the PU unit to see if there is any improvement. If, after trying this a number of times, the grating angle does not become less than 75° then the mechanism should be judged to be at fault.

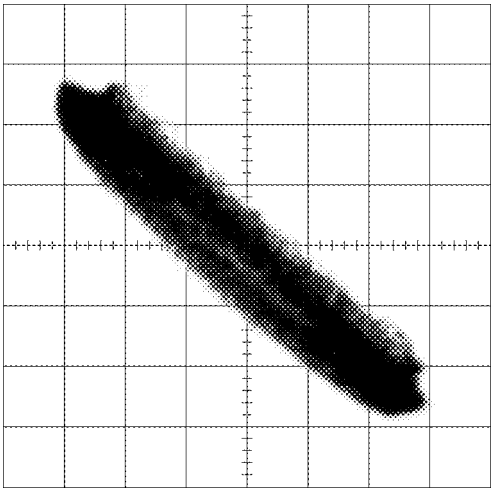
• **Note**
Because of eccentricity in the disc and a slight misalignment of the clamping center the grating waveform may be seen to "wobble" (the phase difference changes as the disc rotates). The angle specified above indicates the average angle.

• **Hint**
Reloading the disc changes the clamp position and may decrease the "wobble".

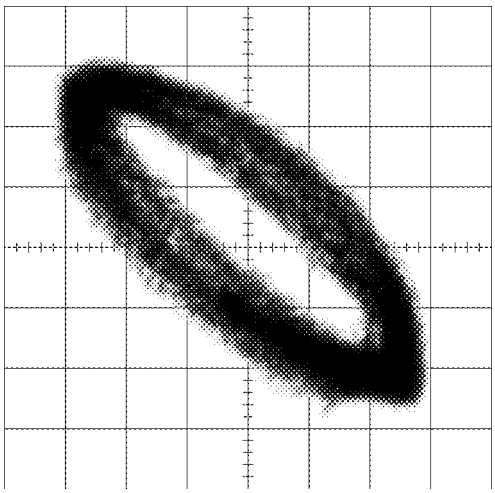
Grating waveform

Ech → Xch 20mV/div, AC
Fch → Ych 20mV/div, AC

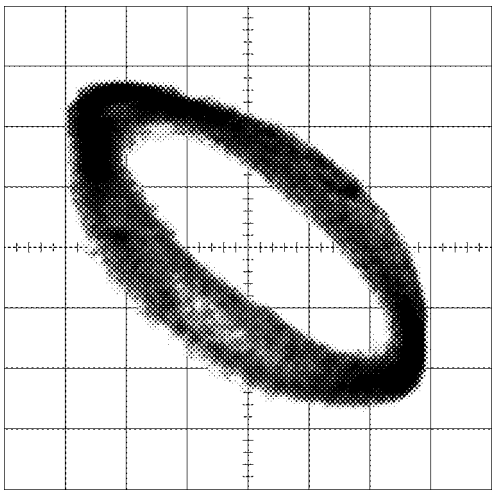
0°



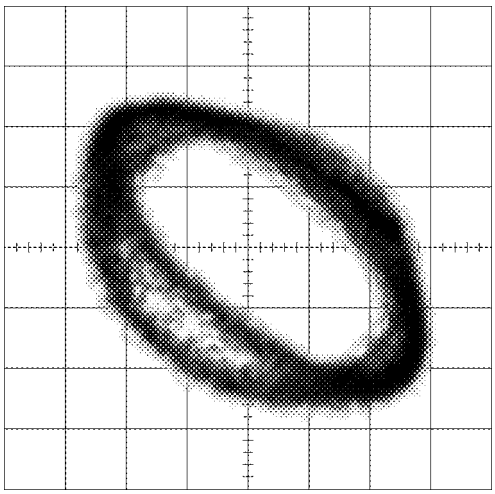
30°



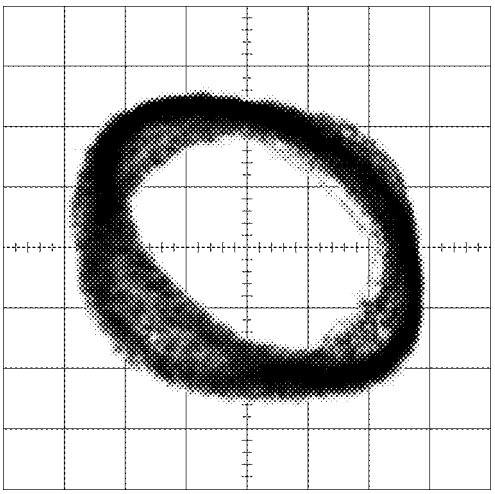
45°



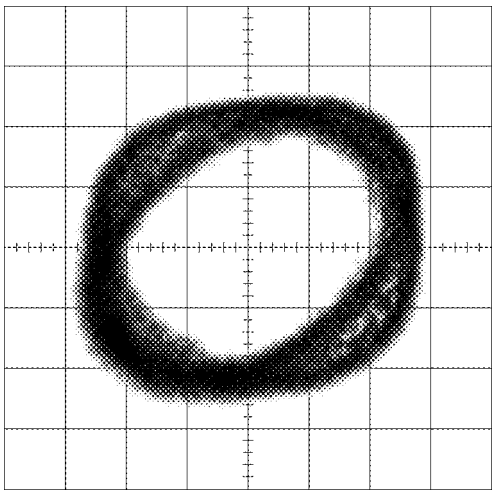
60°



75°

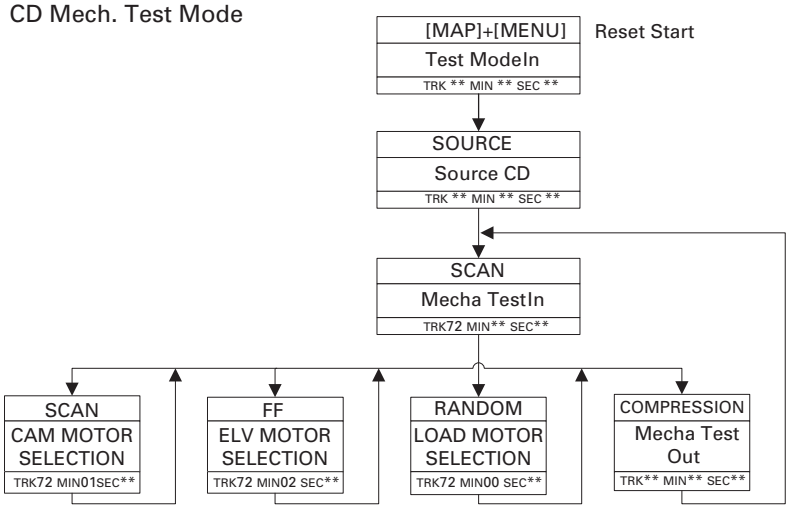


90°



6.4 TEST MODE

CD Mech. Test Mode

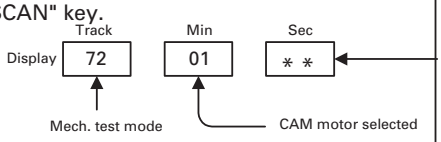


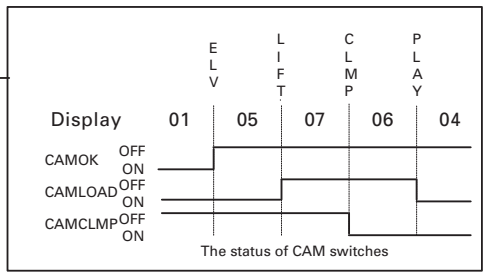
Note:
The mechanical operations such as loading, ejection and disc change are controlled by the highly sophisticated method.
Before entering this test mode, fully grasp how the mechanism is controlled, by referring to the mechanism operation flowchart.

[Key operations]
Select the motor to be operated by using one of the following three keys: SCAN, FF, and RANDOM.
To move the selected motor, use the "TRACK UP / TRACK DOWN" key.
While the key is being pressed, the motor will continue to move.

1) To select the CAM motor, press the "SCAN" key.

"TRACK UP" key: to move in the CAM PLAY direction
"TRACK DOWN" key: to move in the CAM ELV direction

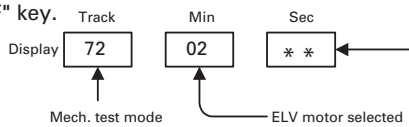


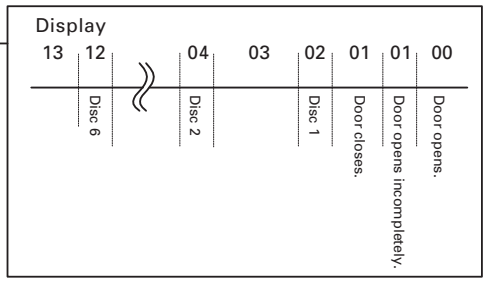


Notes:
To protect the mechanism from unexpected damages, keep the following points in mind:
1. Before moving the CAM motor from the ELV position to the LIFT position, be sure to move the ELV motor to select the disc 1 to 6.
2. Before moving the CAM motor from the CLMP position to the LIFT position, be sure to select the SPDL claws to release the disc clamp.

2) To select the ELV motor, press the "FF" key.

"TRACK UP" key: to move in the ELV UP direction
"TRACK DOWN" key: to move in the ELV DOWN direction

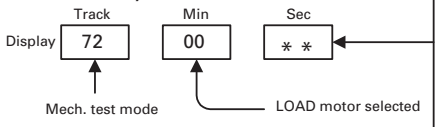


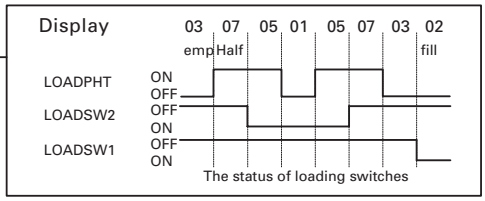


Note:
Before moving the ELV motor, be sure to move the CAM motor to the ELV position or LIFT position first. If not, the mechanism may be damaged.
When the CAM motor is set to the ELV position, do not move the ELV motor from the door open position to the door closed position.

3) To select the LOAD motor, press the "RANDOM" key.

"TRACK UP" key: to load a disc.
"TRACK DOWN" key: to eject the loaded disc.





6.5 ERROR CODE LIST

● Electricity

	Class	Contents	Description and cause
10	Electricity	Carriage home NG	CRG cannot move to the inner tracks. CRG cannot move from the inner tracks. →HOME SW defective, CRG movement failure
11	Electricity	Focus search NG	No focus →Disc loaded upside down, dirty discs loaded or excessive vibration applied
12	Electricity	Spindle lock NG Subcode NG RF AMP NG	No spindle lock. Wrong subcodes (unreadable) →Spindle failure, scratched or dirty discs loaded, excessive vibration applied Unwritten CD-R disc loaded. Disc loaded upside down. The optimum RF AMP gain cannot be obtained. →CD signal abnormal
17	Electricity	Setup NG	AGC protection does not function. Focus is easily unlocked. →Scratched or dirty discs loaded, excessive vibration applied
30	Electricity	Search time-out	Cannot reach the target address. →Carriage or tracking failure, scratched discs loaded.
	The third digit	The claw SW value when an error occurred: Bit 0: HOME, Bit 1: CLMP	
	The fourth digit	1: The number of the FG pulses is not within the allowable range. 0: The number of the FG pulses was satisfied with the spec at least once.	

● System

Upper two digits	Class	Contents	Description and cause
A0	System	Power NG	Power supply voltage (VD) abnormal →SW transistor failure. Abnormal power supply (connector failure)
A1	System	EREF NG	The elevation-position-detection reference voltage is deviated.
	The third and fourth digits	The motor control terminal output when an error occurred. (Bit 0 - 7) = (LO1, LO2, ELV1, ELV2, CG1, CG2, ELVCONT, LODCONT)	

● Mechanism 1: [2* **] Waiting for disc ejection.

Upper two digits	Class	Contents	Description and cause
20	Mechanism	Waiting for disc ejection.	A loaded disc is not taken out even when 30 seconds passed after forcible eject operation. Foreign substances, sensors failure, driving system failure
21	Mechanism	Waiting for disc ejection.	
22	Mechanism	Waiting for disc ejection.	
23	Mechanism	Waiting for disc ejection.	
24	Mechanism	Waiting for disc ejection.	
25	Mechanism	Waiting for disc ejection.	
26	Mechanism	Waiting for disc ejection.	
	The third digit	---	
	The fourth digit	The 3-bit value for the LOAD SW with forcible eject error: (Bit 0, Bit 1, Bit2) = (LOADSW2, LOADSW1, LOADPHT)	

● Mechanism 2: [5* **], [6* **], [7* **], [8* **] CAM operation NG

Upper two digits	Class	Contents	Description and cause
51	Mechanism	CAM Err	During TRAYUP, CAM motor FWD time-out error Time-out at the CAMCLMP ON waiting mode
52	Mechanism	CAM Err	During TRAYUP, CAM motor REV time-out error Time-out at the CAMCLMP OFF waiting mode
5A	Mechanism	CAM Err	During TRAYDN, CAM motor FWD time-out error Time-out at the CAMCLMP ON waiting mode
5B	Mechanism	CAM Err	During TRAYDN, CAM motor REV time-out error Time-out at the CAMLOAD OFF waiting mode
5E	Mechanism	CAM Err	During TRAYDN, CAM motor FWD time-out error Time-out at the CAMLOAD ON waiting mode
61	Mechanism	CAM Err	During CRGOUT, CAM motor FWD time-out error Time-out at the CAMLOAD OFF waiting mode
62	Mechanism	CAM Err	During CRGOUT, CAM motor REV time-out error Time-out at the CAMCLMP OFF waiting mode
64	Mechanism	CAM Err	During CRGOUT, CAMLOAD turns ON at the CAMCLMP OFF mode (mechanical stuck)
66	Mechanism	CAM Err	During CRGOUT, CAM motor REV time-out error Time-out at the CAMLOAD ON waiting mode
6A	Mechanism	CAM Err	During CRGIN, CAM motor FWD time-out error Time-out at the CAMCLMP ON waiting mode
6B	Mechanism	CAM Err	During CRGIN, CAM motor REV time-out error Time-out at the CAMCLMP OFF waiting mode
71	Mechanism	CAM Err	During ELVIN, CAM motor FWD time-out error Time-out at the CAMEOK OFF waiting mode
72	Mechanism	CAM Err	During ELVIN, CAM motor REV time-out error Time-out at the CAMEOK ON waiting mode

Upper two digits	Class	Contents	Description and cause
7A	Mechanism	CAM Err	During ELVOUT, CAM motor FWD time-out error Time-out at the CAMLOAD OFF waiting mode
7B	Mechanism	CAM Err	During ELVOUT, CAM motor REV time-out error Time-out at the CAMCLMP OFF waiting mode
7D	Mechanism	CAM Err	During ELVOUT, CAMLOAD turns ON at the CAMCLMP OFF mode (mechanical stuck).
7F	Mechanism	CAM Err	During ELVOUT, CAM motor REV time-out error Time-out at the CAMLOAD ON waiting mode
81	Mechanism	CAM Err	During EIN_EXP, CAM motor FWD time-out error Time-out at the CAMEOK OFF waiting mode
82	Mechanism	CAM Err	During EIN_EXP, CAM motor REV time-out error Time-out at the CAMEOK ON waiting mode
8A	Mechanism	CAM Err	During CIN_EXP, CAM motor FWD time-out error Time-out at the CAMCLMP ON waiting mode
8B	Mechanism	CAM Err	During CIN_EXP, CAM motor REV time-out error Time-out at the CAMCLMP OFF waiting mode
	The third digit	---	
	The fourth digit	CAMSW 3-bit value before retry (with the first error)(Bit0, Bit1, Bit2) = (CAMCLMP, CAMLOAD, CAMEOK)	

● Mechanism 3: [91 **], [92 **], [93 **], [94 **], [96 **] Initializing errors
For [90 **], refer to (9) Mechanism 7.

Upper two digits	Class	Contents	Description and cause
91	Mechanism	CAMRST Err	At the start of the initializing operation, the CAM motor is not positioned correctly, but does not return to the correct position.
92	Mechanism	CAMRST Err	
93	Mechanism	CAMRST Err	
94	Mechanism	CAMRST Err	During initializing, spindle claws do not close.
96	Mechanism	CAMRST Err	At the start of the initializing operation, the CAM motor is not positioned correctly, but does not return to the correct position.
	The third digit	---	
	The fourth digit	---	

● Mechanism 4: [9A **], [9B **], [9C **], [9D **] Claw operation NG

Upper two digits	Class	Contents	Description and cause
9A	Mechanism	Claw Err	During spindle claw closing operation (DSKFREE), the claws do not close.
9B	Mechanism	Claw Err	During spindle claw opening operation (DSKLOCK), the claws do not open.
9C	Mechanism	Claw Err	During spindle claw closing operation for releasing the shipping mode (CLWCLSE), the claws do not close.
9D	Mechanism	Claw Err	During spindle claw opening operation for setting the shipping mode (CLWOPEN), the claws do not open.
	The third digit	CAMSW 3-bit value with an claw operation error(Bit 0, Bit 1, Bit 2) = (CAMCLMP, CAMLOAD, CAMEOK)	
	The fourth digit	Claw SW value before the claw operation starts Bit 0: HOME, Bit 1: CLMP	

● Mechanism 5: [B* **] Disc change (tray selection) NG Upper 2 digits

Upper two digits	Class	Contents	Description and cause
B1	Mechanism	DISCSEL Err	The elevation does not move in the UP direction or stops.
B2	Mechanism	DISCSEL Err	The elevation does not move in the DOWN direction or stops.
B3	Mechanism	DISCSEL Err	The carriage cannot reach the target tray.
B6	Mechanism	DISCSEL Err	The carriage mechanism passes the target tray.
	The third digit	Target Disc No.	
	The fourth digit	EVL Err stop position before retry	

● Mechanism 6:
[C* **] The tray does not move up to the eject/insert position (elevation movement including shutter opening).
[D* **] The tray does not move down from the eject/insert position to the home position (elevation movement including shutter closing).

Upper two digits	Class	Contents	Description and cause
C1	Mechanism	LIFT Err	During LIFTUP, the shutter does not open completely.
C2	Mechanism	LIFT Err	During LIFTUP, abnormal conditions occurred.
C3	Mechanism	LIFT Err	
C6	Mechanism	LIFT Err	
D1	Mechanism	LIFT Err	During LIFTDN, abnormal conditions occurred.
D2	Mechanism	LIFT Err	The elevation does not move in the DOWN direction or stops.
D3	Mechanism	LIFT Err	During LIFTDN, the carriage mechanism cannot reach the target tray.
D4	Mechanism	LIFT Err	During LIFTDN, foreign substances were detected around the slot.
D6	Mechanism	LIFT Err	During LIFTDN, the carriage mechanism passes the target tray.
D7	Mechanism	LIFT Err	During LIFTDN, foreign substances were detected around the slot.
	The third digit	The current Disc No.	
	The fourth digit	EVL err stop position before retry	

● Mechanism 7: [E (F)* **]

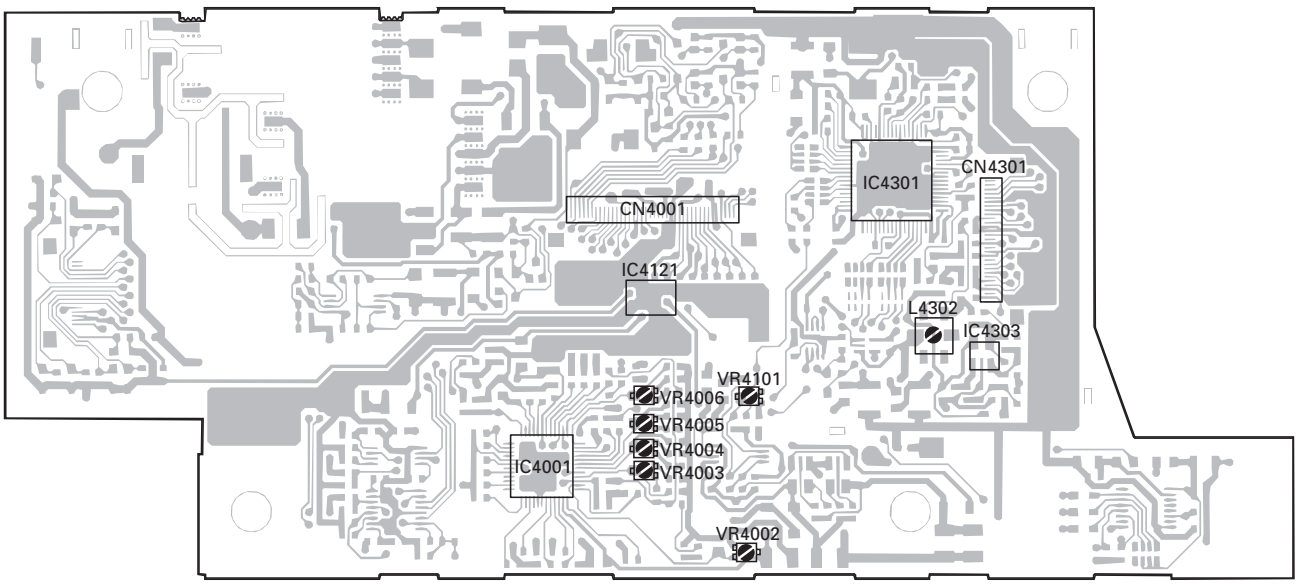
Upper two digits	Class	Contents	Description and cause
90	Mechanism	LOAD/EJECT Err	After forcible eject, the shutter does not open or close even with retry.
E0	Mechanism	LOAD/EJECT Err	
E2	Mechanism	LOAD/EJECT Err	
E6	Mechanism	LOAD/EJECT Err	
EB	Mechanism	LOAD/EJECT Err	
ED	Mechanism	LOAD/EJECT Err	
F0	Mechanism	LOAD/EJECT Err	
F1	Mechanism	LOAD/EJECT Err	
F2	Mechanism	LOAD/EJECT Err	
F3	Mechanism	LOAD/EJECT Err	
F4	Mechanism	LOAD/EJECT Err	
F5	Mechanism	LOAD/EJECT Err	
F6	Mechanism	LOAD/EJECT Err	
F7	Mechanism	LOAD/EJECT Err	
FB	Mechanism	LOAD/EJECT Err	
	The third digit	---	
	The fourth digit	---	

Code	Meaning
0	Door opens.
1	Door opens incompletely.
E	Door closes.
2	Disc 1: within OK range
3	
4	Disc 2: within OK range
5	
6	Disc 3: within OK range
7	
8	Disc 4: within OK range
9	
A	Disc 5: within OK range
B	
C	Disc 6: within OK range
D	

6.6 MODULE UNIT ADJUSTMENT

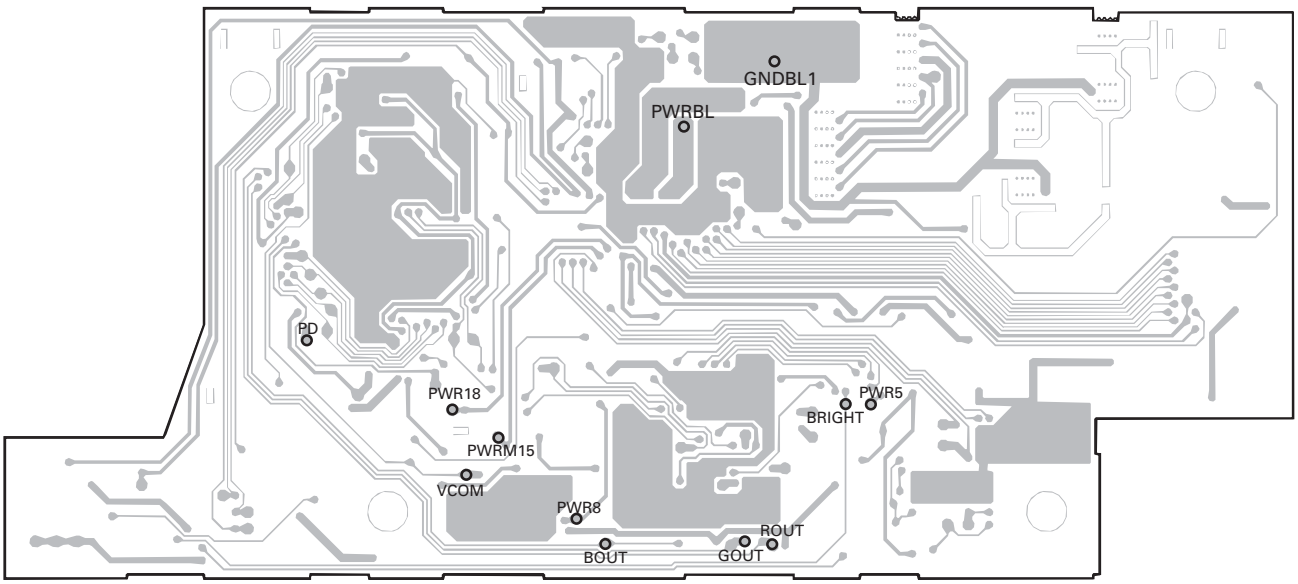
● **Adjustment point**

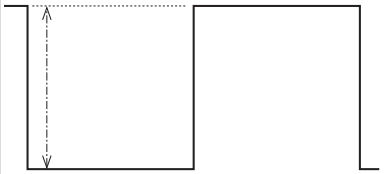
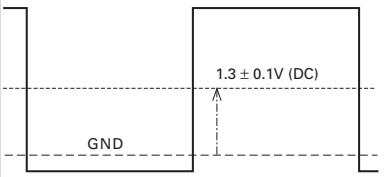
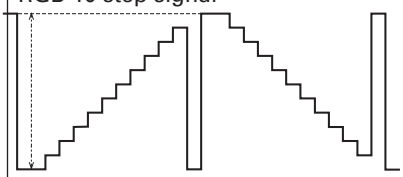
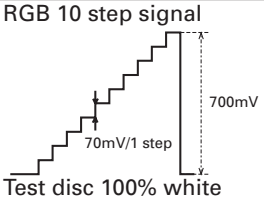
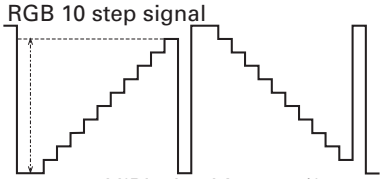
MODULE UNIT (SIDE A)

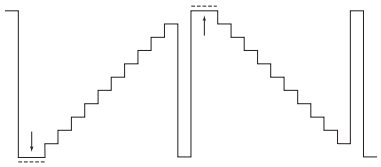
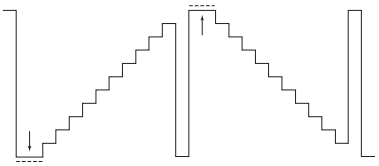
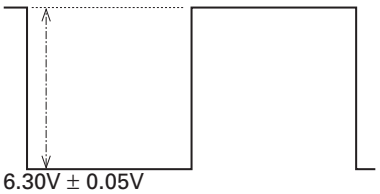


● **Test point**

MODULE UNIT (SIDE B)



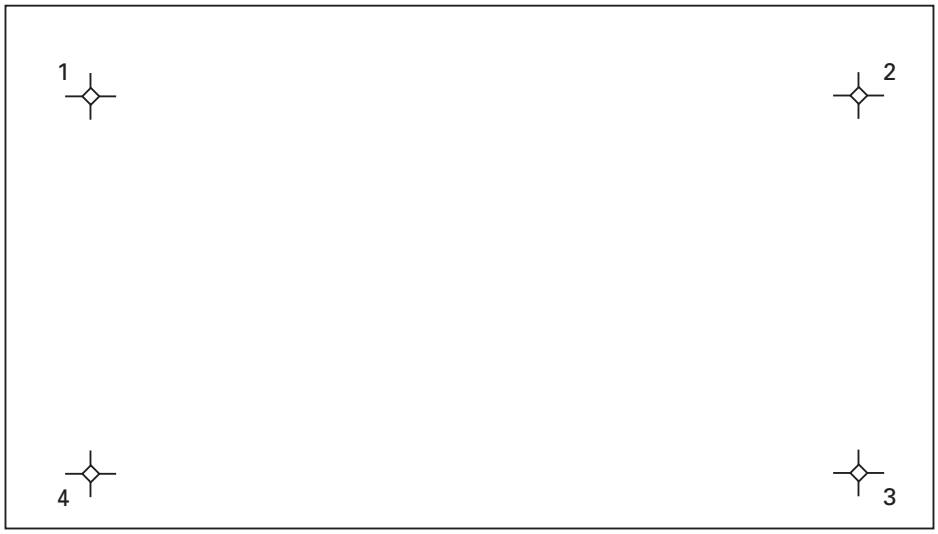
No.	Adjustment item	VSW	Measurement Point	Adjustment Point	Adjustment Content	Note
1	5V supply		TP PWR5 (CN4001 pin 27)		5.0V±0.1V DC	
2	8V supply		TP PWR8 (CN4001 pin 28)		7.5V±0.3V DC	
3	18V supply		TP PWR18 (CN4001 pin 29)		18.5V±0.7V DC	
4	-15V supply		TP PWRM15 (CN4001 pin 30)		-15.5V±0.7V DC	
5	PWRBL supply		TP PWRBL (CN4001 pin 21, 22)		8.3V±0.2V DC	Measure the potential difference between TP and GNDBL1
6	BRIGHT setting	H	TP BRIGHT (IC4121 pin 6)	IC4121 A02	65h Setting(1.99V)	User adjustment "CONTRAST=0" is also possible
7	BRIGHT confirmation	H	TP BRIGHT (IC4121 pin 6)		1.99V±0.05V DC	
8	Free-run PD voltage confirmation		TP PD (IC4303 pin 4)		No synchronizing signal input Conform the voltage of TP PD	
9	PD voltage adjustment		TP PD (IC4303 pin 4)	L4302	Synchronizing signal input (The signal for checker) External video input or TVRF input Voltage checked in No.8 ± 0.01V DC	
10	COM amp rough adjustment	H	TP VCOM (CN4301 pin 17)	VR4006	 6.30V±0.2V	
11	Vcom_DC rough adjustment	H	TP VCOM (CN4301 pin 17)	VR4101		Measure DC value of Vcom center voltage
12	RGB amp	H	TP GOUT (CN4301 pin 27)	VR4003	RGB 10 step signal  4.00±0.05V(Black-black of next line)	RGB 10 step signal  Test disc 100% white Diagnostic mode 100% white is also possible
13	Gamma 2	H	TP GOUT (CN4301 pin 27)	VR4002	RGB 10 step signal  3.40±0.05V(Black-white 100%)	

No.	Adjustment item	VSW	Measurement Point	Adjustment Point	Adjustment Content	Note
14	B sub brightness adjustment	H	TP GOUT (CN4301 pin 27) and TP BOUT (CN4301 pin 26)	VR4004	RGB 10 step signal  Adjust the black level of G and B waveform	
15	R sub brightness adjustment	H	TP GOUT (CN4301 pin 27) and TP ROUT (CN4301 pin 28)	VR4005	RGB 10 step signal  Adjust the black level of G and R waveform	
16	COM amp	H	TP VCOM (CN4301 pin 17)	VR4006	 6.30V ± 0.05V	
17	Aging				Input all screen white signals (or animation) Leave 30 minutes or more operation mode	
18	Flicker adjustment		Display	VR4101	Input the signal that black signal and white signal reverses line-by-line (RGB) Adjust so that display flicker is minimum	

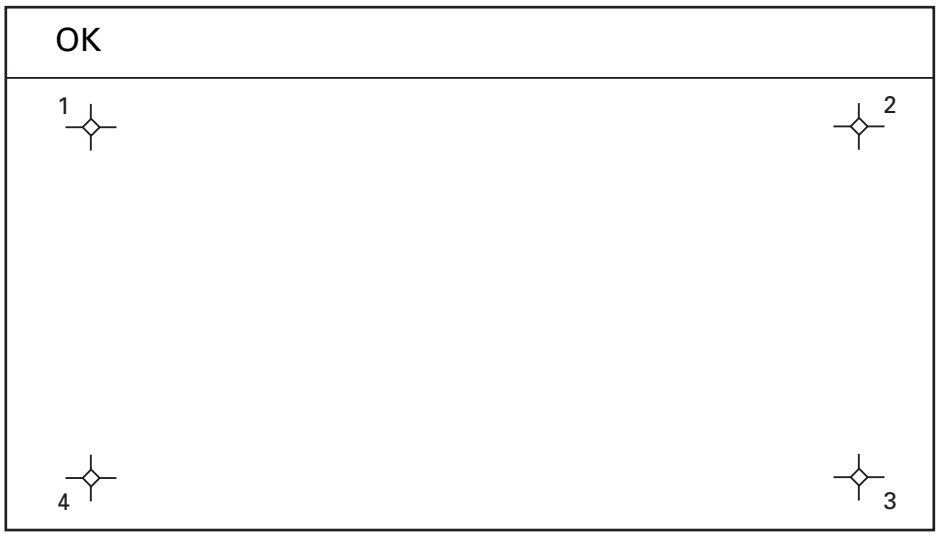
6.7 TOUCH PANEL CALIBRATION

● **Calibrate the touch panel in the following cases:**
- After changing the EEPROM(IC601).
- When the touch screen is out of alignment.
- When the EEPROM(IC601) data is erased.

● **Turning on the Calibration Mode**
Press the MAP, DEST and MENU buttons simulataneously turn on the ACC.



● **Calibration**
Using the stylus pen, touch the point indicated in each corner of the screen in the order shown. "OK" is displayed at the top of the screen to indicate that the touch screen has been calibrated, then normal operation will resume.



● **Verification**
To check the calibration, press "AM", then "Sound" then "Bass/Treble" to select the Audio Adjustment mode, then press "0" for both "Bass" and "Treble". The button display should be displayed reversed.

● **Storing the calibration data**
Switch ACC ON to OFF and leave OFF for at least than 10 seconds. During this time, do not switch off the backup power.

7. GENERAL INFORMATION
7.1 DIAGNOSIS
7.1.1 DISASSEMBLY

● **Removing the Grille Assy**

1. Insert a screwdriver into the hole on the back of the unit and press it straight in the direction of the arrow as shown in Fig. 1.
   If you insert the screwdriver at an angle at the moment, you may damage some parts inside.
   Be sure to insert the screwdriver horizontally to the product.
2. Press and open the Grille Assy to the maximum extent with your hands.(Fig.1)
3. Remove the two screws. (Fig.2)
4. Unlock the connector with a standard tip screwdriver and remove the Grille Assy. (Fig.3)

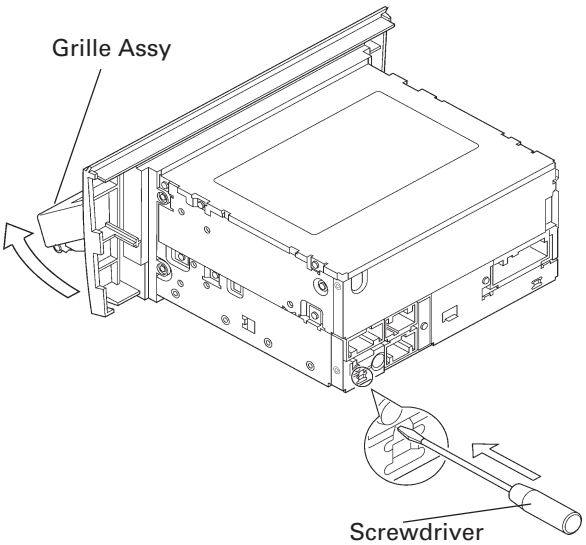


Fig.1

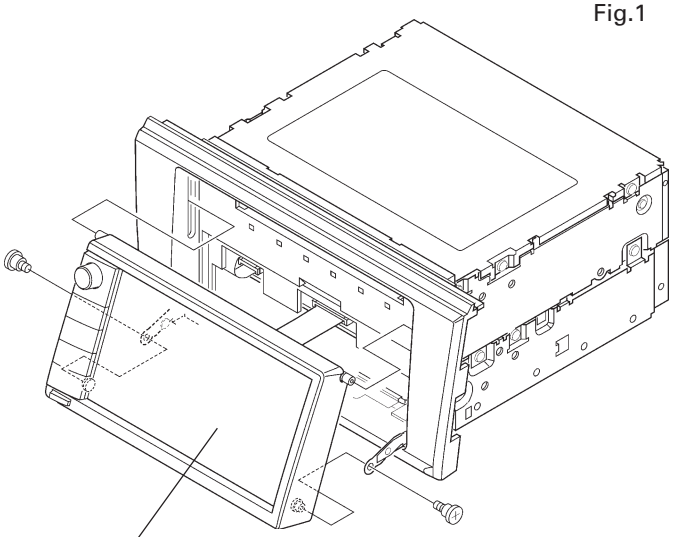


Fig.2

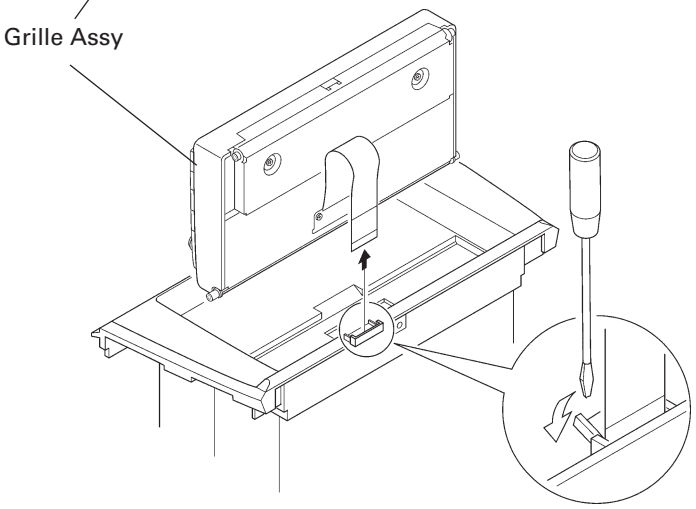


Fig.3

● **Removing the Case(Fig.4)**

1. Remove the four screws A and then remove the Case.

● **Removing the Panel Assy(Fig.4)**

1. Disconnect the connector.
2. Remove the four screws B and then remove the Panel Assy.

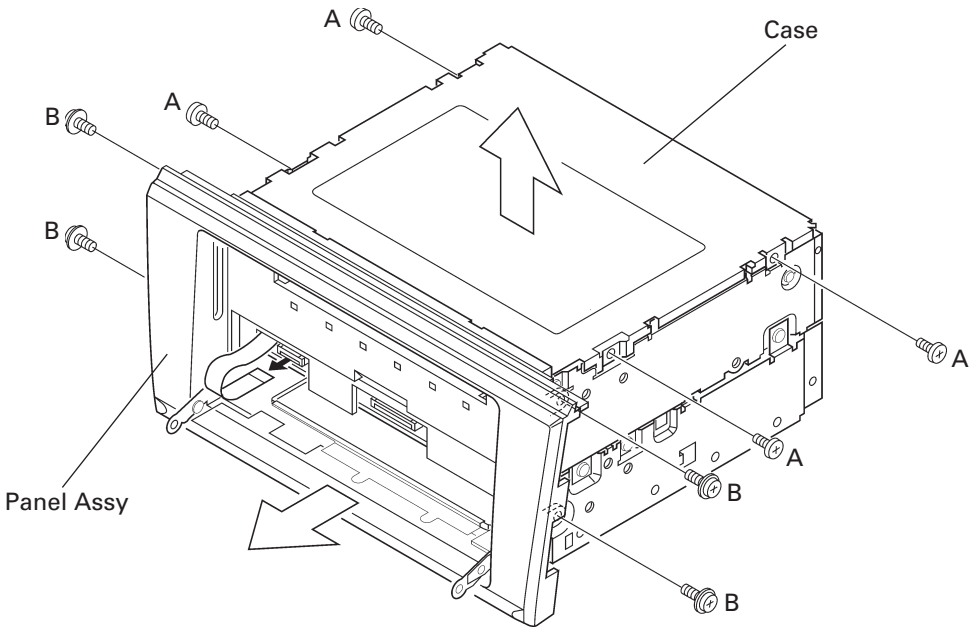


Fig.4

● **Removing the CD Mechanism Module(Fig.5)**

1. Remove the four screws.
2. Disconnect the connector and then remove the CD Mechanism Module.

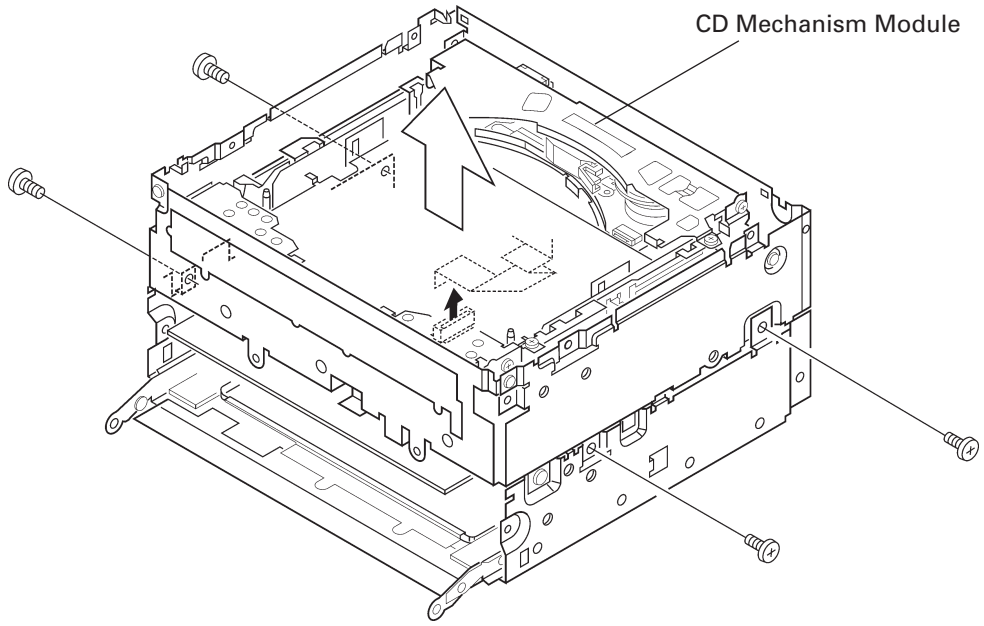


Fig.5

● **Removing the Mechanism Unit(Fig.6)**

1. Remove the two springs A and two springs B from the hook.
2. Remove the nine screws A and then remove the holder.
3. Remove the four screws B and then remove the two brackets from chassis.
4. Remove the four dampers and then remove the Mechanism Unit

● **Removing the Control Unit(Fig.6)**

1. Apply shorting solder to the PU flexible cable.
2. Disconnect the connector.
3. Remove the two screws C.
4. Remove the Control Unit(G2F).

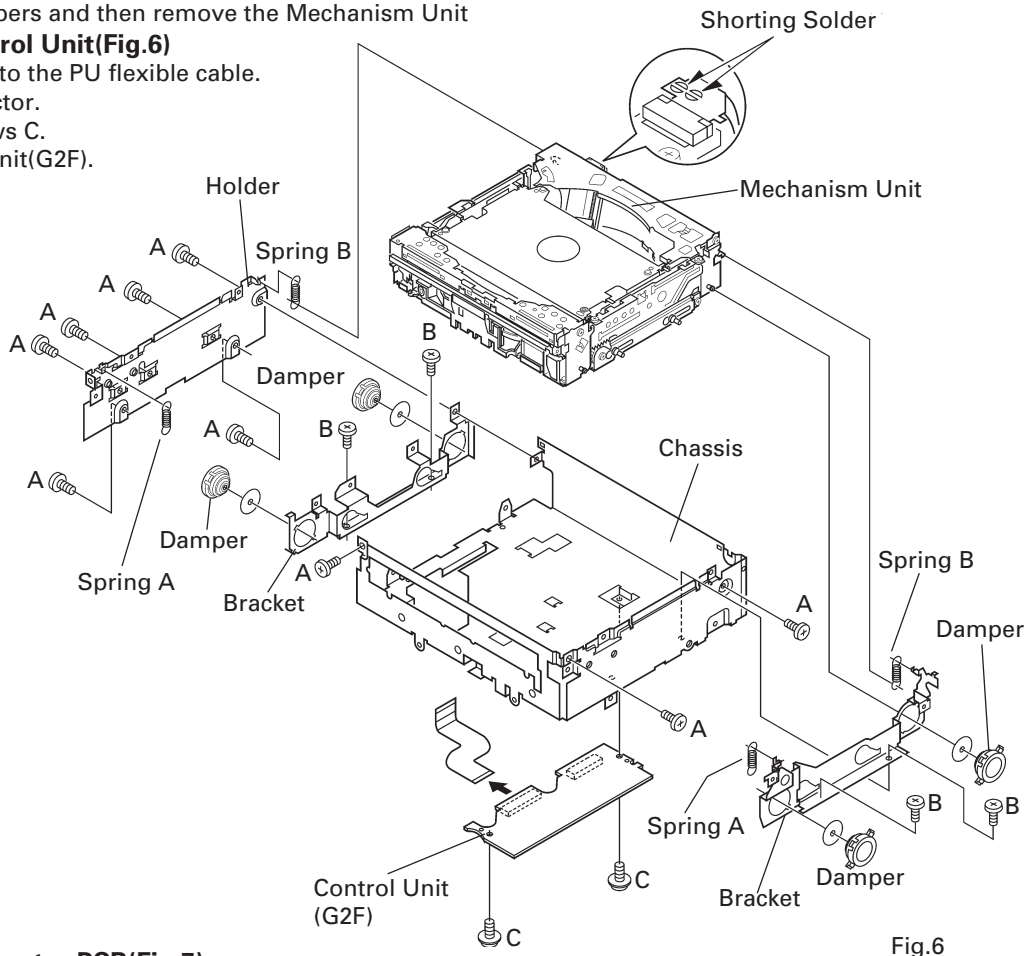


Fig.6

● **Removing the Connector PCB(Fig.7)**

1. Remove the two screws A and then remove the Connector PCB.

● **Removing the Drive Mechanism Unit(Fig.7)**

1. Disconnect the connector.
2. Remove the two screws B and then remove the Drive Mechanism Unit.

● **Removing the Tuner Audio Unit(Fig.7)**

1. Remove the two screws C, two screws D and screw E.
2. Unbend the tab indicated by arrow and then remove the Tuner Audio Unit.

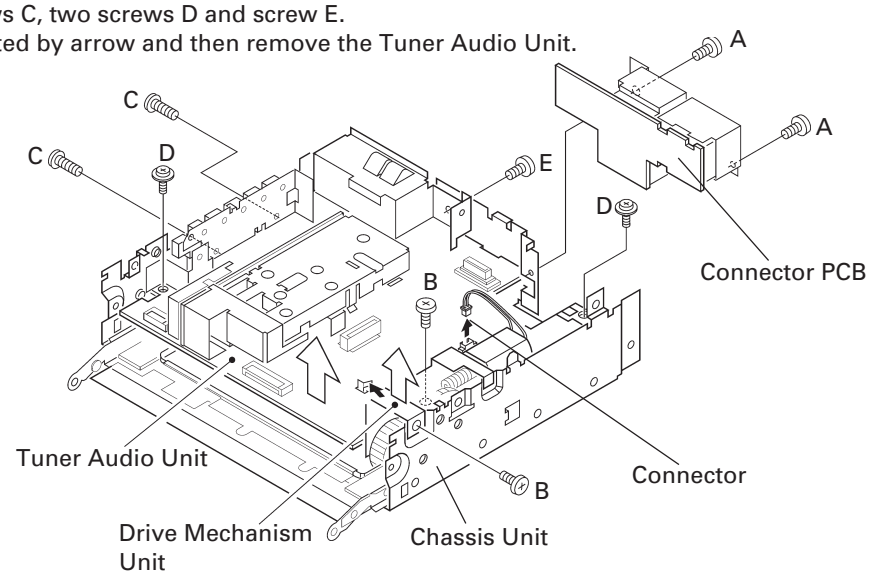


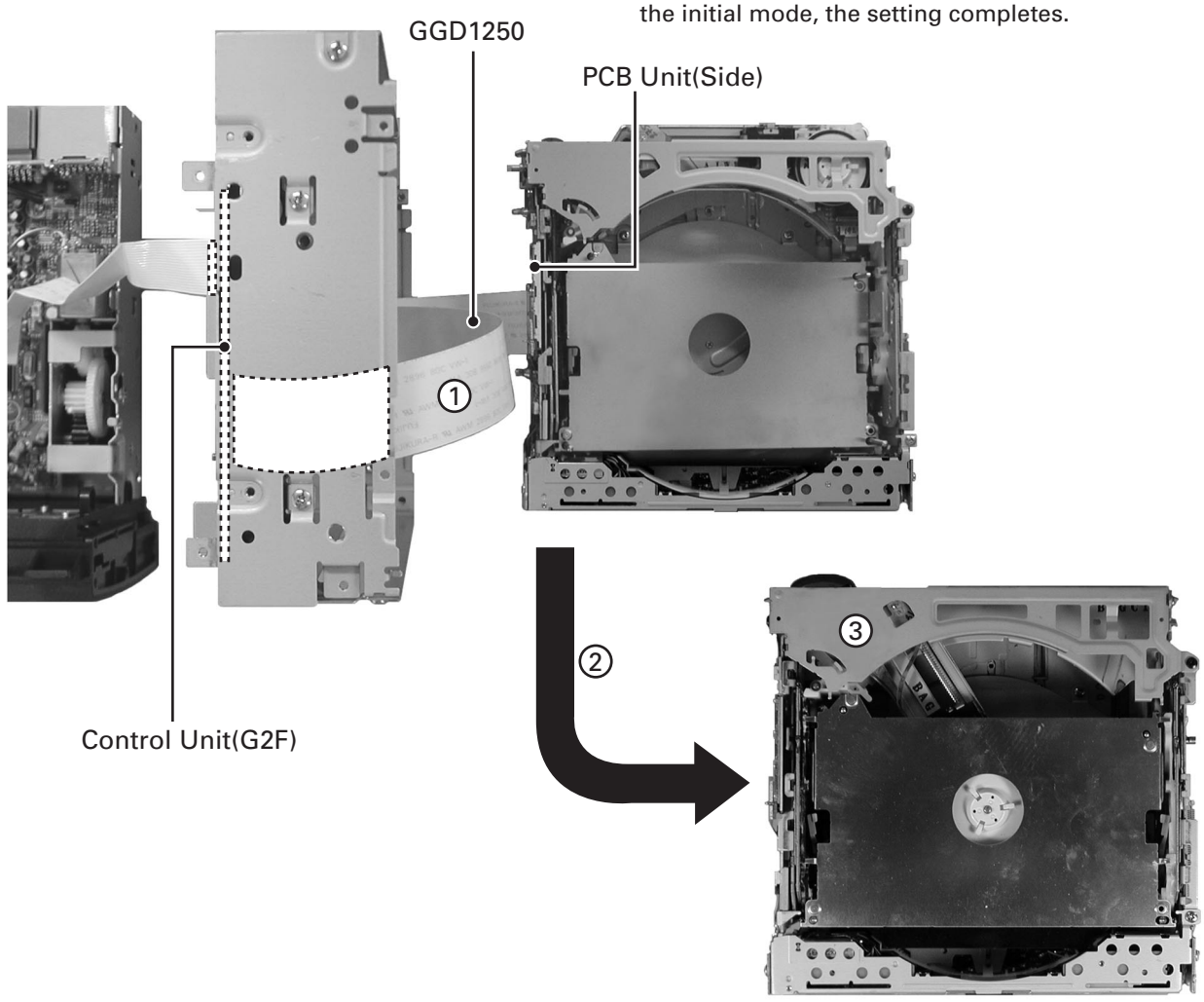
Fig.7

● Cautions on replacing the CD mechanism unit

The CD mechanism units available as service parts have been set in the shipment mode at the factory. Before mounting it on the product to be serviced, be sure to apply the power to a CD mechanism to put it into the initial mode, where the carriage mech assy stays at the disc clamp position, in accordance with the following method:

<Initial mode setting method>

1. Keep a CD mechanism unit out of the product to be serviced as shown below. Connect the 50-pin connector of the control unit (G2F) in the product and the 50-pin connector of the PCB unit (Side) in the CD mechanism by using the extension cable (GGD1250).
2. Apply the power (+14V) to the product to move the CD mechanism until it enters the initial mode and stops. (Operating time: about 30 seconds)
3. When it is confirmed that the CD mechanism stops in the initial mode, the setting completes.



● Removing the PU Unit(PX1)

1. Set the mechanism to the shipment mode.
2. Remove the two screws A and two screws B.
3. Remove the Frame.

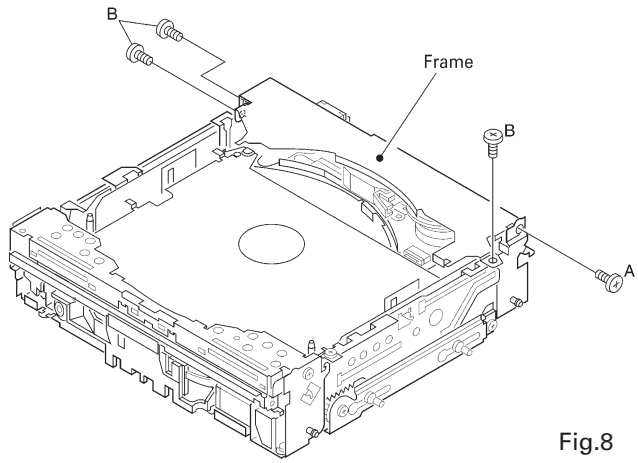


Fig.8

4. Apply shorting solder to the PU flexible cable before disconnecting it from the connector CN12.
5. Disconnect the flexible cable from the connector CN12, and remove the flexible cable Holder.
6. Remove the washer and Arm. (Be careful not to lose the spring B.)
7. Remove the screw, spring A, and Collar.
8. Remove the Carriage Mech. Assy.

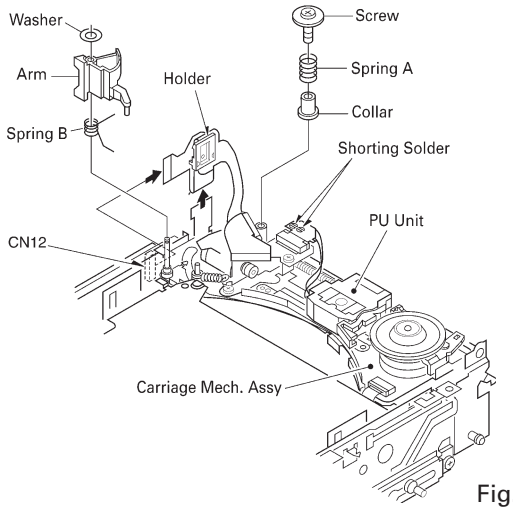


Fig.9

9. Apply shorting solder to the PU flexible cable before disconnecting it from the Connector.
10. Disconnect the PU flexible cable from the Connector.
11. Move the PU Unit to the left side slightly by turning the Gear.
12. Pull out the spindle motor Support Wheel Unit upwards to remove it.
13. Remove the Spring.
14. Slide the holder to make it easier to remove the Screw Unit.

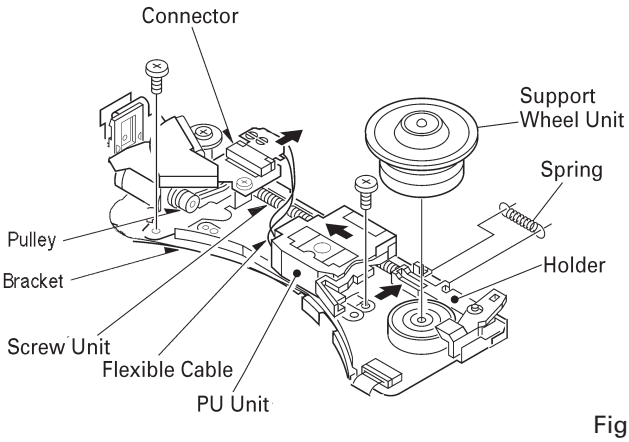


Fig.10

15. While pressing the shaft holder in the direction shown by the black arrow in the right figure, remove the PU Unit together with the Screw Unit.

Note:
To assemble the PU Unit, insert the Spring on the PU rear between the PU Unit and the Guide first.

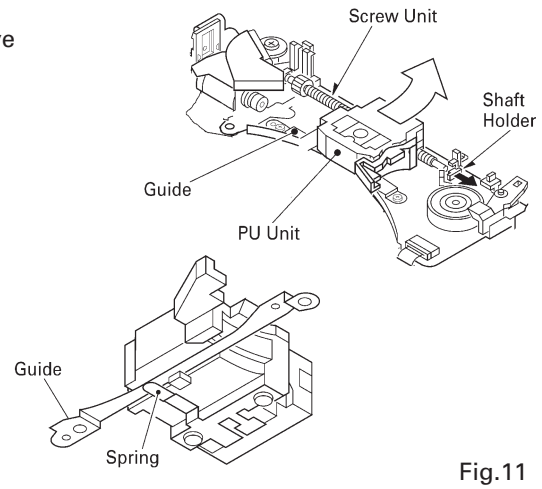
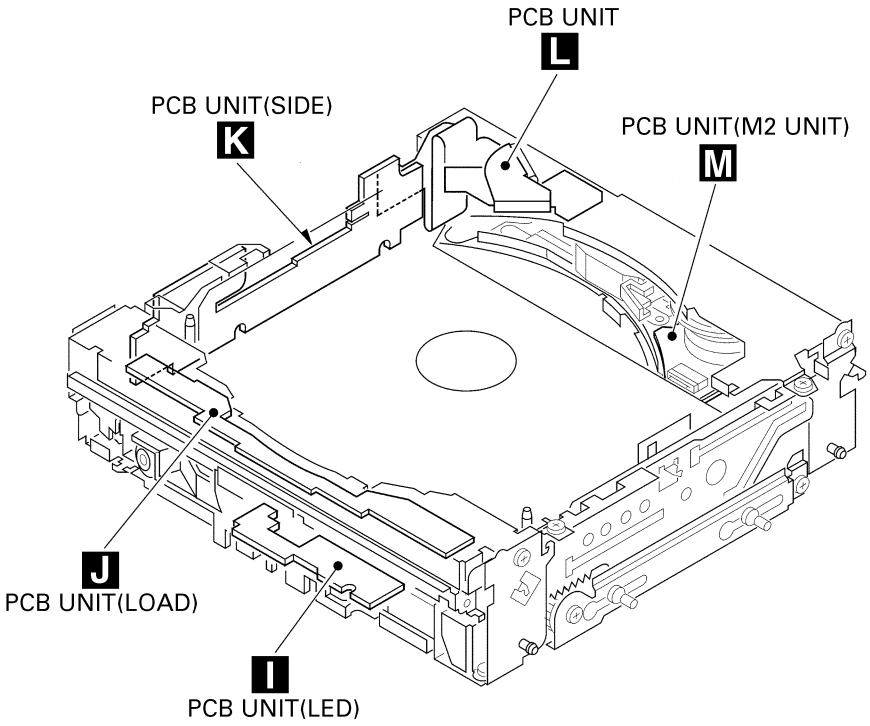
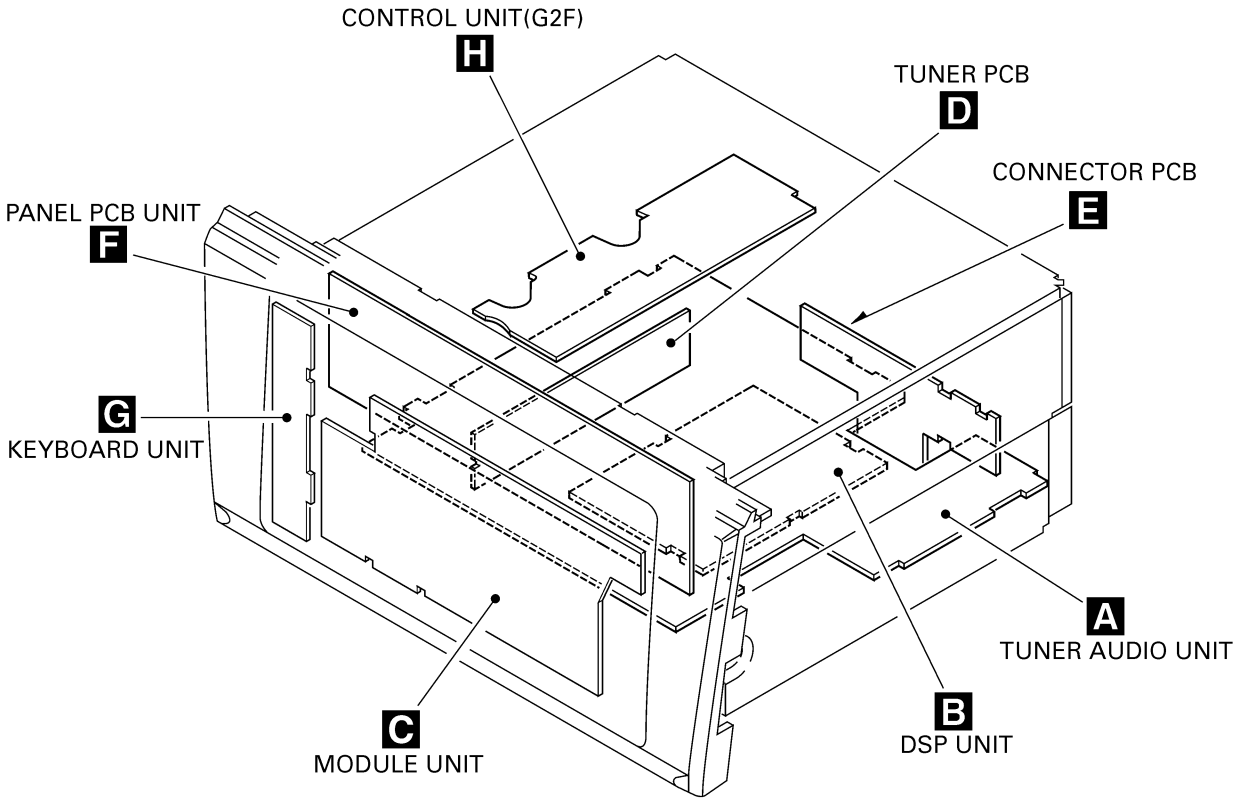


Fig.11

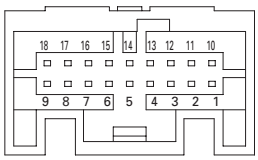
7.1.2 PCB LOCATIONS





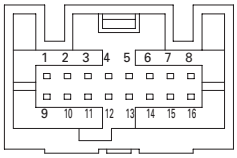
7.1.3 CONNECTOR FUNCTION DESCRIPTION

PIN NO.	FUNCTION
1	LF+
2	RF+
3	LR+
4	RR+
5	NC
6	NC
7	SUBWOOF+
8	NC
9	ENABLE/CLD
10	LF-
12	RF-
12	LR-
13	RR-
14	NC
15	NC
16	SUBWOOF-
17	AUDIO SHIELD GND
18	ENABLE/CLD1

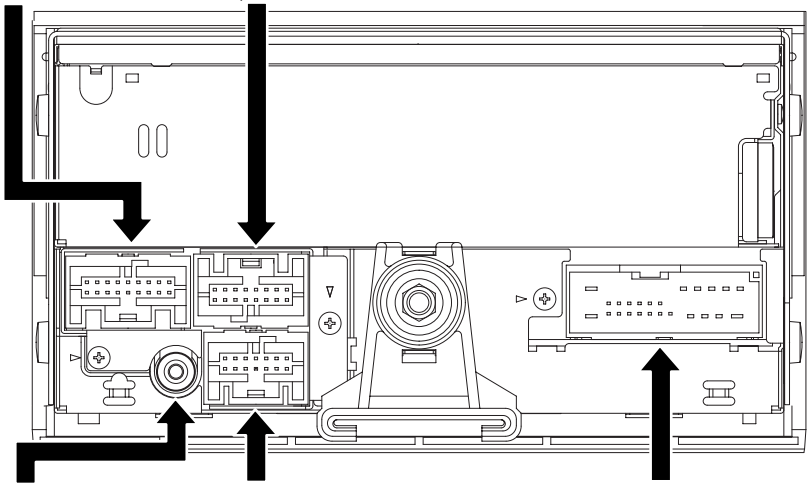


6ch AMPLIFIER

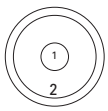
PIN NO.	FUNCTION
1	AUDIO L+
2	AUDIO L-
3	AUDIO-SHIELD
4	MONO+
5	MONO-
6	ASYSON
7	ACP A
8	ACP B
9	AUDIO R+
10	AUDIO R-
11	NC
12	NC
13	NC
14	NC
15	NC
16	NC



CD DJ, RSE or TCU

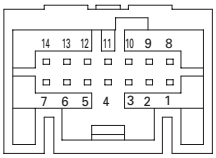


FM/AM ANTENNA



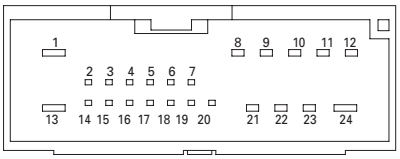
PIN NO.	FUNCTION
1	ANTENNA
2	SHIELD

NAVIGATION



PIN NO.	FUNCTION
1	RGB R
2	RGB G
3	RETURN
4	NC
5	VOICE+
6	CLOCK ON
7	CAN A
8	RGB B
9	SYNC
10	NC
11	NC
12	VOICE-
13	NC
14	CAN B

POWER SUPPLY



PIN NO.	FUNCTION	PIN NO.	FUNCTION
1	BACKUP	13	POWER_GND
2	DELAY/ACC	14	NC
3	PWM+	15	START
4	PWM-	16	NC
5	IP OPEN+	17	NC
6	IP OPEN-	18	SWC+
7	PTA	19	SWC-
8	NC	20	REVERSE
9	NC	21	NC
10	NC	22	NC
11	NC	23	NC
12	NC	24	RADIO_GND

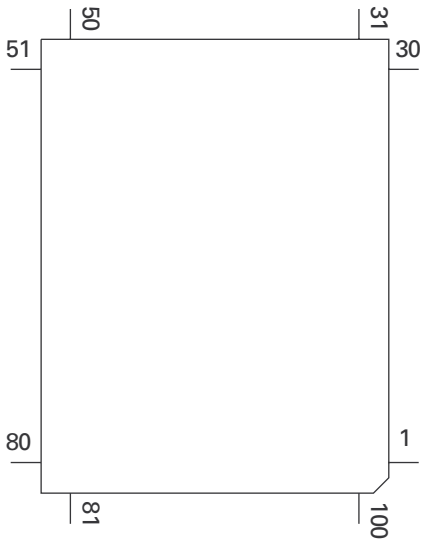
7.2 IC

● **Pin Functions (PD5904D)**

Pin No.	Pin Name	I/O	Function and Operation
1	CTX	O	CAN communication output
2	CRX	I	CAN communication input
3	PWMIN	I	ILM PWM input
4	ILMOUT	O	ILM D/A output
5	PDO	O	Tuner : PLL/ DA IC data output
6	PDI	I	Tuner : PLL Data input
7	PCK	O	Tuner : PLL/DA IC clock output
8	BYTE		Not used
9	CNVSS		GND
10	SCLKIN	I	Sub clock input
11	SCLKOUT	O	Sub clock output
12	RESET	I	Reset input
13	XOUT	O	Crystal oscillator connection pin
14	VSS		GND
15	XIN	I	Crystal oscillator connection pin
16	VCC	I	Power supply
17	NMI	I	Not used
18	RCK	I	RBDS : Clock input
19	$\overline{\text{ILMINT}}$	I	Illumination interrupt input
20	$\overline{\text{ROTINT}}$	I	Rotary encoder interrupt input
21	$\overline{\text{BSENS}}$	I	Back up sense input
22	$\overline{\text{OPENSW}}$	I	OPEN switch input
23	$\overline{\text{ASENS}}$	I	ACC sense input
24	$\overline{\text{HOMESW}}$	I	Home switch input
25	IPOPEN	I	IP open input
26	BEEP	O	Beep output
27	$\overline{\text{CDSRQ}}$	I	F-BUS : Communication request input
28	ECLK	O	Electronic volume / DSP clock output
29	EDTIN	I	DSP data Input
30	EDT	O	Electronic volume / DSP data output
31	ATXD	O	ACP-BUS: ACP data output
32	ARXD	I	ACP-BUS: ACP data input
33	LCK	O	Expander IC : data latch output
34	$\overline{\text{EVCE}}$	O	Evol chip enable output
35	MOSI	O	F-BUS : Bus data output
36	MISO	I	F-BUS : Bus data input
37	$\overline{\text{SCK}}$	O	F-BUS : Bus clock output
38	$\overline{\text{CSCD}}$	O	F-BUS : Communication status output
39	EPCE	O	Diag EPROM CE (CLKout) output
40	$\overline{\text{BRST}}$	O	F-BUS : BUS reset output
41	$\overline{\text{CLIPIN1}}$	I	Clip detector input
42	$\overline{\text{DSPCS}}$	O	DSP : DSP IC chip select output
43	$\overline{\text{DSPRST}}$	O	DSP : DSP IC reset output
44	$\overline{\text{DSPACK}}$	I	DSP : DSP IC acknowledge input
45	IFOK	I	DSP : DSP internal flag input
46	$\overline{\text{DSPERR}}$	I	DSP : DSP internal error input
47	$\overline{\text{CLIPIN}}$	I	Clip detector input
48	$\overline{\text{OE}}$	O	Expander output enable output
49	ROMCK	O	ROM1 / Expander clock output
50	ROMDATA	O	ROM1 / Expander data I/O output
51	DRST	O	RBDS : IC reset output
52	REVICE	I	RBDS : Receive input
53	RDT	I	RBDS : RBDS data input
54	RDSLK	I	RBDS : RDSLK input
55	$\overline{\text{ST}}$	I	Tuner : Stereo input
56	LOCL	O	Tuner : Local L output
57	$\overline{\text{PLLCE2}}$	O	Tuner : PLL chip enable output 2

Pin No.	Pin Name	I/O	Function and Operation
58	SD	I	Tuner : SD input
59	PLLCE	O	Tuner : PLL chip enable output 1
60	PSENS	I	Photo sense input
61	SYSPWR	O	System power output
62	VCC		Power supply
63	MUTE	O	System mute output
64	VSS		GND
65	AMPPWR	O	Amp power output
66	$\overline{\text{DSPCS2}}$	O	DSP : DSP IC 2 chip select output
67	$\overline{\text{RPAIN}}$	I	Parking aid input
68	SWVDD	O	Power output
69	DALD	O	DA IC load output
70	TESTIN	I	Chip test mode input
71	NC		Not used
72	ASYSON	O	ACP-BUS: power output
73	$\overline{\text{WAKEUP}}$	I	Wake Up key sense input
74	$\overline{\text{PTAIN}}$	I	PTA interrupt input
75	ACPINT	I	ACP-BUS: ACP Bus interrupt input
76	CLKWK	O	Wake Up for clock display output
77-80	$\overline{\text{KDT3}}$-$\overline{\text{KDT0}}$	I	Key data input
81	YDT1	O	Touch Panel : Y data output 1
82	YDT0	O	Touch Panel : Y data output 0
83	XDT1	O	Touch Panel : X data output 1
84	XDT0	O	Touch Panel : X data output 0
85-88	$\overline{\text{KST3}}$-$\overline{\text{KST0}}$	O	Key strove output
89	ROTIN1	I	Rotary encoder pulse input 1
90	ROTIN0	I	Rotary encoder pulse input 0
91	MODEL	I	Distinction of vehicle input
92	TPADIN1	I	Touch Panel : AD input 1
93	TPADIN0	I	Touch Panel : AD input 0
94	SWCIN	I	SWC input
95	ILMI	I	Illumination sense input
96	AVSS		A/D converter ground
97	SL	I	Tuner SL Level input
98	VREF		A/D converter reference voltage
99	AVPP		Not used
100	CANPWR	O	CAN-BUS : Power output

* PD5904C



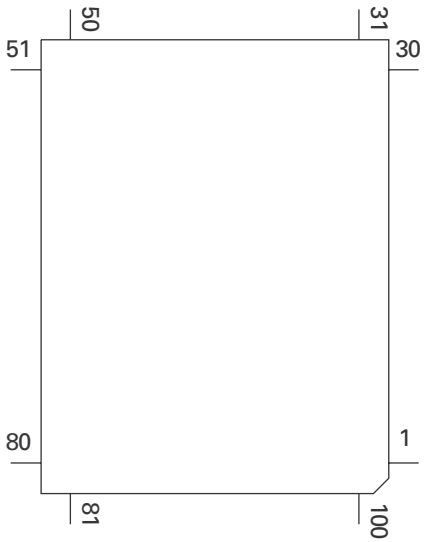
IC's marked by * are MOS type.
Be careful in handling them because they are very liable to be damaged by electrostatic induction.

● Pin Functions (PD2071A)

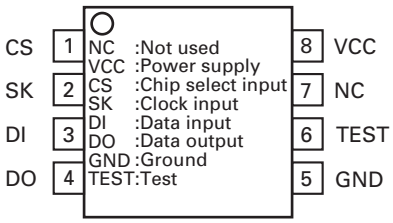
Pin No.	Pin Name	I/O	Function and Operation
1	ECKO	O	External clock output
2	ECKI	I	External clock input
3	GNDX		Ground terminal for oscillator
4	GNDAL		Ground terminal(DAC L channel)
5	AOL	O	DAC analog signal output (L channel)
6	VRL		DAC L channel reference voltage terminal
7	VDAL		Power supply terminal (DAC L channel)
8	VDAR		Power supply terminal (DAC R channel)
9	VRR		DAC R channel reference voltage terminal
10	AOR	O	DAC analog signal output(R channel)
11	GNDAR		Ground terminal (DAC R channel)
12	GNDAC		Ground terminal (DAC C channel)
13	AOC	O	DAC analog signal output(C channel)
14	AOCT	O	DAC analog signal output with attenuator (C channel)
15	VRC		DAC C channel reference voltage terminal
16	VDAC		Power supply terminal (DAC C channel)
17	VRO	O	Attenuator reference voltage terminal (Buffer output)
18	VRI	I	Attenuator reference voltage terminal (Buffer input)
19	VDAS		Power supply terminal (DAC S channel)
20	VRS		DAC S channel reference voltage terminal
21	AOST	O	DAC analog signal output with attenuator (S channel)
22	AOS	O	DAC analog signal output (S channel)
23	GNDAS		Ground terminal(DAC S channel)
24	GND		Ground terminal
25-29	TP0-TP4	O	Test terminal (Open)
30	VDD		Power supply terminal
31	VDDR		Power supply terminal (for DLRAM)
32	GNDR		Grand terminal (for DLRAM)
33-40	TP5-TP12	O	Test terminal (Open)
41	FS	O	Clock output terminal (1 fs)
42	CKO0	O	Clock output 0
43	CKO1	O	Clock output 1
44	GND		Grand terminal
45	TP13	O	Test terminal (Open)
46	MCK	O	MCK clock output (256 fs / 512 fs / (384 / 768 fs))
47	VDD		Power supply terminal
48-53	TP14-TP19	O	Test terminal (Open)
54	CKS	I	Mater clock select input
55	STEP0	I	Action step select input 0
56	STEP1	I	Action step select input 1
57	$\overline{RST}$	I	Reset input
58	VDD		Power supply terminal
59	SYNC	I	Program synchronizing signal input
60	ELRO	I	LR clock input for serial data output
61	ELRI	I	LR clock input for serial data input
62	EBCO	I	Bit clock input for serial data output
63	EBCI	I	Bit clock input for serial data input
64	DIN	I	Serial data input
65	DOUT	O	Serial data output
66,67	EM0,1	I	De-emphasis set up input
68-70	IFF0-2	I	Interface flag input
71	GND		Ground terminal
72	$\overline{CS}$	I	Chip select input
73	IFCK	I	Data shift clock input
74	IFDI	I	Data input
75	IFDO	O	Data output
76	IFOK	O	Operation flag output

Pin No.	Pin Name	I/O	Function and Operation
77	$\overline{ACK}$	O	Acknowledge output
78	$\overline{ERR}$	O	Error flag output
79	I2CS	I	I2C bus select input
80	BOOT	I	Self boot control input
81,82	BA0-BA1	I	Boot address setup input
83	VDD		Power supply terminal
84-87	TST0-3	I	Test terminal (Open)
88	GND		Grand terminal
89	VSAL		Analog ground terminal (ADC L channel)
90	LIN	I	ADC analog signal input (L channel)
91	AVRL		ADC L channel reference voltage terminal
92	VDL		Analog power supply terminal (ADC L channel)
93	VDR		Analog power supply terminal (ADC R channel)
94	AVRR		ADC R channel reference voltage terminal
95	RIN	I	ADC analog signal input (R channel)
96	VSAR		Analog ground terminal (ADC R channel)
97	GNDX		Ground terminal
98	XI	I	Crystal oscillator connect terminal (Input)
99	XO	O	Crystal oscillator connect terminal (Output)
100	VDX		Power supply terminal for oscillator

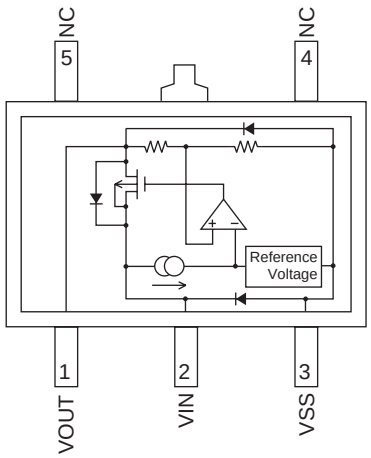
* PD2071A



* S-93C56BD0I-J8



S-812C50AMC-C3E



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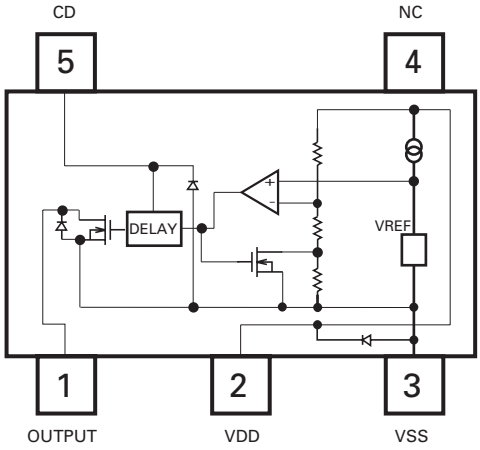

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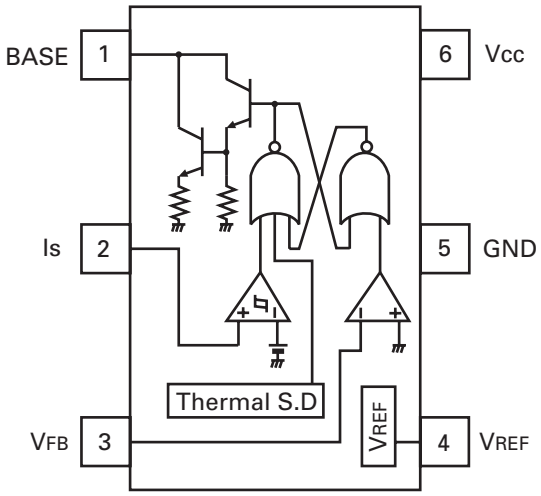

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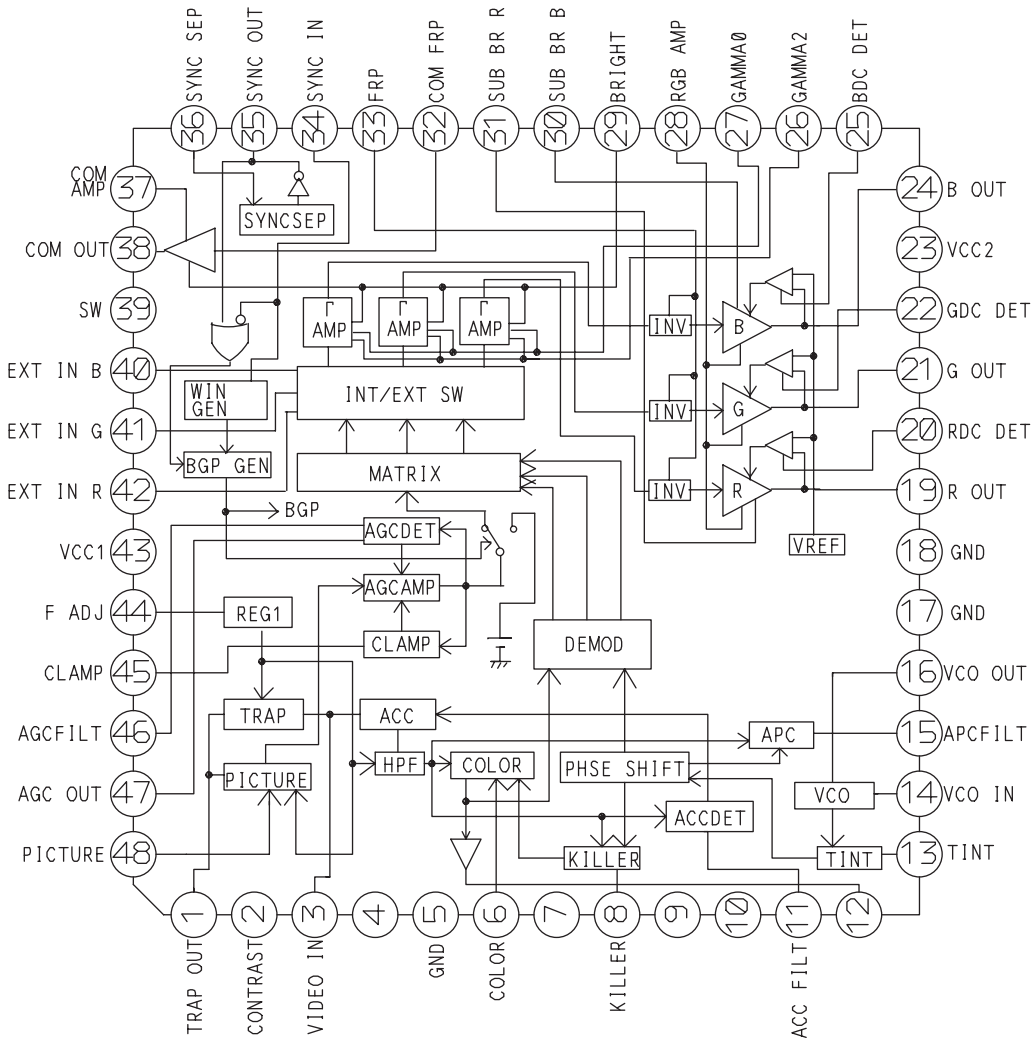
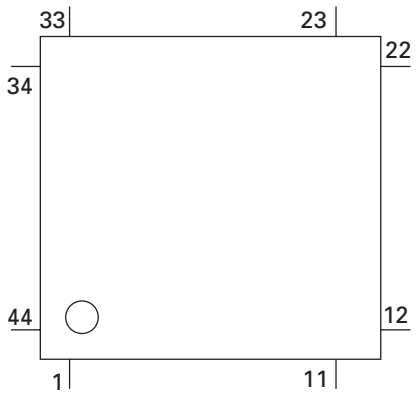


● Pin Functions (SM5903BFP)

Pin No.	Pin Name	I/O	Function and Operation
1	VDD2		Power supply terminal
2-6	UC1-UC5	I/O	Micro computer interface : Extension input / output
7	NC		Not used
8	NTEST	I	Test input
9	CLK	I	Clock input (16.9344MHz)
10	VSS		Ground terminal
11	YSRDATA	I	Audio : Serial data input
12	YLRCK	I	Audio : Serial LR clock input
13	YSCK	I	Audio : Serial bit clock input
14	ZSCK	O	Audio : Serial bit clock output
15	ZLRCK	O	Audio : Serial LR clock output
16	ZSRDATA	O	Audio : Serial data output
17	YFLAG	I	RAM over flow flag input from signal processing IC
18	YFCLK	I	Frame clock input
19	YBLKCK	I	Sub code block clock input
20	NRESET	I	System reset input
21	ZSENSE	O	Micro computer interface : Status output
22	VDD1		Power supply terminal
23	YDMUTE	I	Mute input
24	YMLD	I	Micro computer interface : Latch clock input
25	YMDATA	I	Micro computer interface : Serial data input
26	YMCLK	I	Micro computer interface : Shift clock input
27	A10	O	D-RAM : Address output
28	NCAS	O	D-RAM : $\overline{CAS}$ control output
29,30	D2,D3	I/O	D-RAM : Data input / output
31,32	D0,D1	I/O	D-RAM : Data input / output
33	NWE	O	D-RAM : $\overline{WE}$ control output
34	NRAS	O	D-RAM : $\overline{RAS}$ control output
35-40	A9-A4	O	D-RAM : Address output
41-44	A0-A3	O	D-RAM : Address output

SM5903BFP



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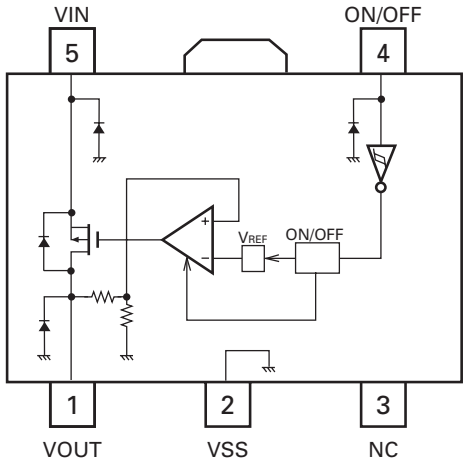
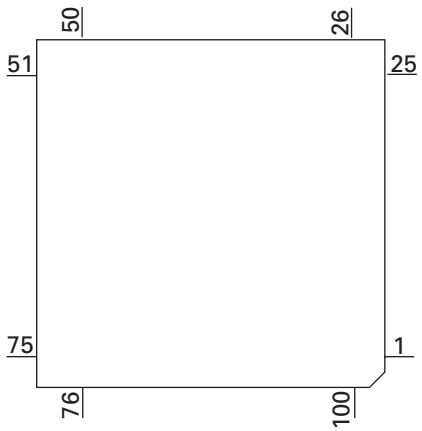


● Pin Functions (PD5705B)

Pin No.	Pin Name	I/O	Function and Operation
1	STSMO	O	STS test output
2	SPDLFG	I	Spindle FG pulse input
3	NC		Not used
4	NC		Not used
5	NC		Not used
6	BYTE	I	VCC connected
7	CNVSS	I	VSS connected
8	POWER	O	CD : +5V control output
9	CONT	O	CD : Servo driver control output
10	$\overline{\text{RESET}}$	I	Reset input
11	XOUT	O	Crystal oscillating element connection pin
12	VSS1		GND
13	XIN	I	Crystal oscillating element connection pin
14	VCC		Back up 5V
15	$\overline{\text{NMI}}$	I	Pull up
16	NC		Not used
17	BRST	I	P–BUS reset input
18	NC		Not used
19,20	NC	O	Not used
21	CAMOK	I	Cam operation sense 1 input
22	CAMLOAD	I	Cam operation sense 2 input
23	CAMCLMP	I	Cam operation sense 3 input
24	$\overline{\text{TESTIN}}$	I	Test program start input
25	LOCK	I	CD : LSI spindle lock sense input
26	NC		Not used
27	BRXEN	I/O	P-BUS : Reception enable input/output
28	BSRQ	O	P-BUS : Serial pole request output
29	BSO	O	P–BUS : Serial data output
30	BSI	I	P–BUS : Serial data input
31	BSCK	O	P–BUS : Clock output
32	NC	O	Not used
33	XSO	O	CD : LSI data output
34	XSI	I	CD : LSI data input
35	XSCK	O	CD : LSI clock output
36	VDCONT	O	VD control output
37	LCCONT	O	LCD drive voltage select output
38–44	NC	O	Not used
45	STSSL	O	STS IC latch output
46	NC	O	Not used
47	XAO	O	CD : LSI data discernment control signal output
48	$\overline{\text{XSTB}}$	O	CD : LSI strobe output
49	$\overline{\text{XRST}}$	O	CD : LSI reset output
50	$\overline{\text{CCS}}$	O	Compression IC chip enable output
51	$\overline{\text{EPCS}}$	I/O	EEPROM detect input , Chip select output
52	FOK	I	CD : LSI focus OK signal input
53	ELVCONT	O	ELV drive voltage select output
54–58	NC	O	Not used
59	STSWAQV	O	STS test output
60	VCC		Power supply
61	STSDEC	O	STS test output
62	VSS2		GND
63	STSENC	O	STS test output
64	STSSTD	O	STS test output
65	STSSTC	O	STS test output
66	STSSTB	O	STS test output
67	STSSTA	O	STS test output
68–71	NC	O	Not used

Pin No.	Pin Name	I/O	Function and Operation
72	HOME2	I	Disc clamp claw sense input
73	SBSY	I	Sub code synchronous interrupt signal input
74	CDMUTE	O	CD : Mute output
75	LO2	O	LOAD motor control 2 output
76	LO1	O	LOAD motor control 1 output
77	ELV2	O	ELV Motor control 2 output
78	ELV1	O	ELV Motor control 1 output
79	HOME	I	Carriage home switch input
80	STS16M	I	STS DRAM 4M/16M(H) select input
81	LOADSW1	I	LOAD operation sense 1 input
82	LOADSW2	I	LOAD operation sense 2 input
83,84	NC		Not used
85	$\overline{\text{ADENA}}$	O	AVREF enable output
86	CG1	O	Cam motor 1 output
87	CG2	O	Cam motor 2 output
88	LOADVOL2	I	LOAD voltage sense 2 input
89	LOADPHT	I	LOAD operation photo sense input
90	LOMMON	O	Not used
91	ELVSENS	I	ELV position select input
92	EREFF		ELV sense reference voltage
93	TEMP	I	CD : Temperature sense input
94	AVSS		A/D converter ground potential
95	VDIN	I	CD : Power supply short sensor input
96	VREF	I	A/D converter reference voltage input
97	AVCC		A/D converter ground
98	STSSI	I	STS IC data input
99	STSSO	O	STS IC data output
100	STSSCK	O	STS IC clock output

* PD5705B



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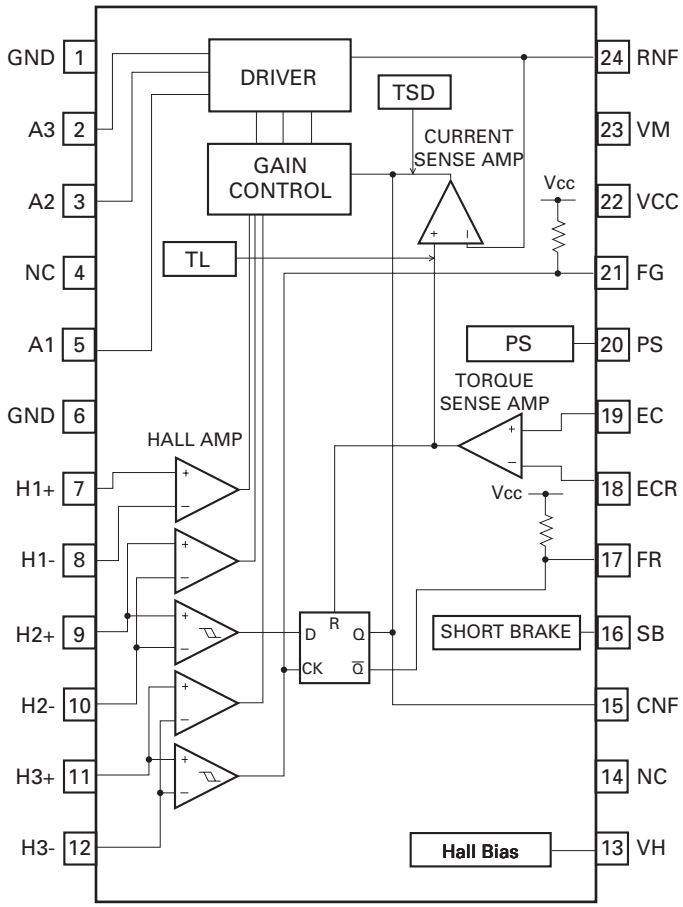
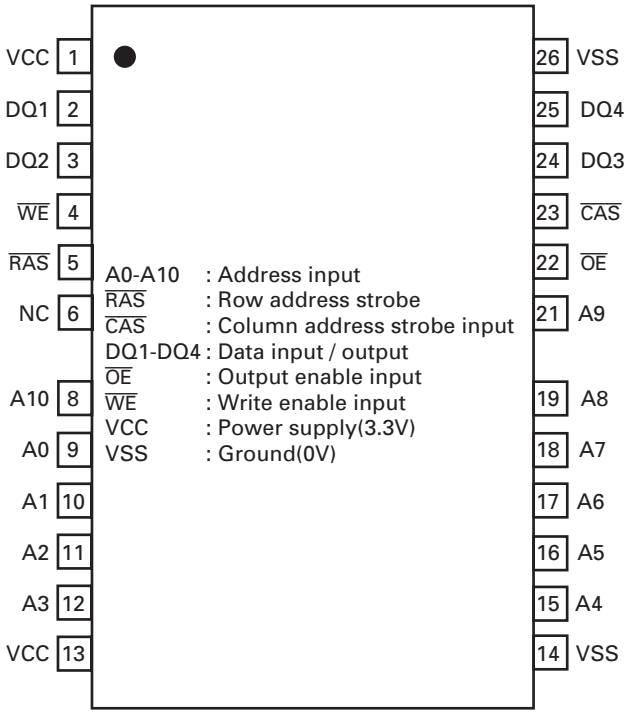


* MSM51V17400F6TFT



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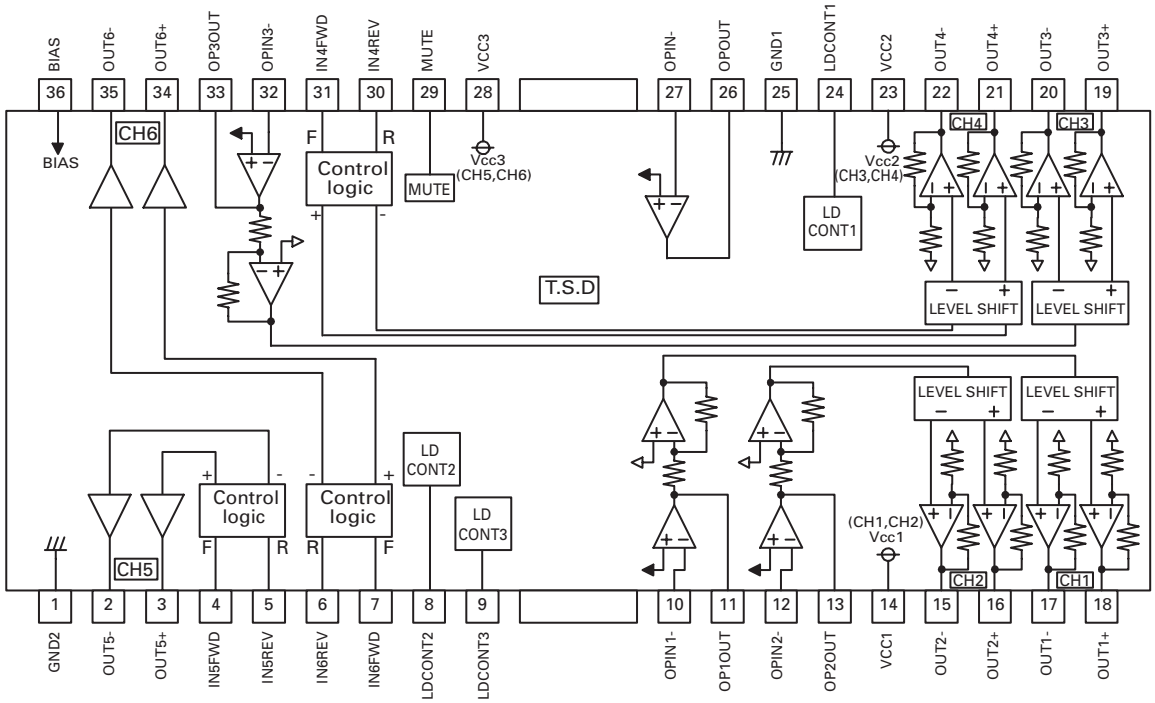
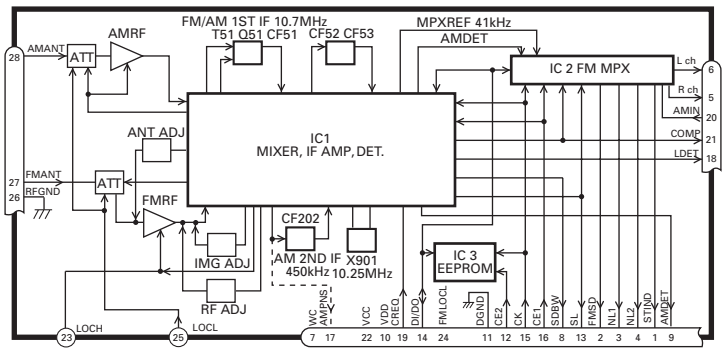


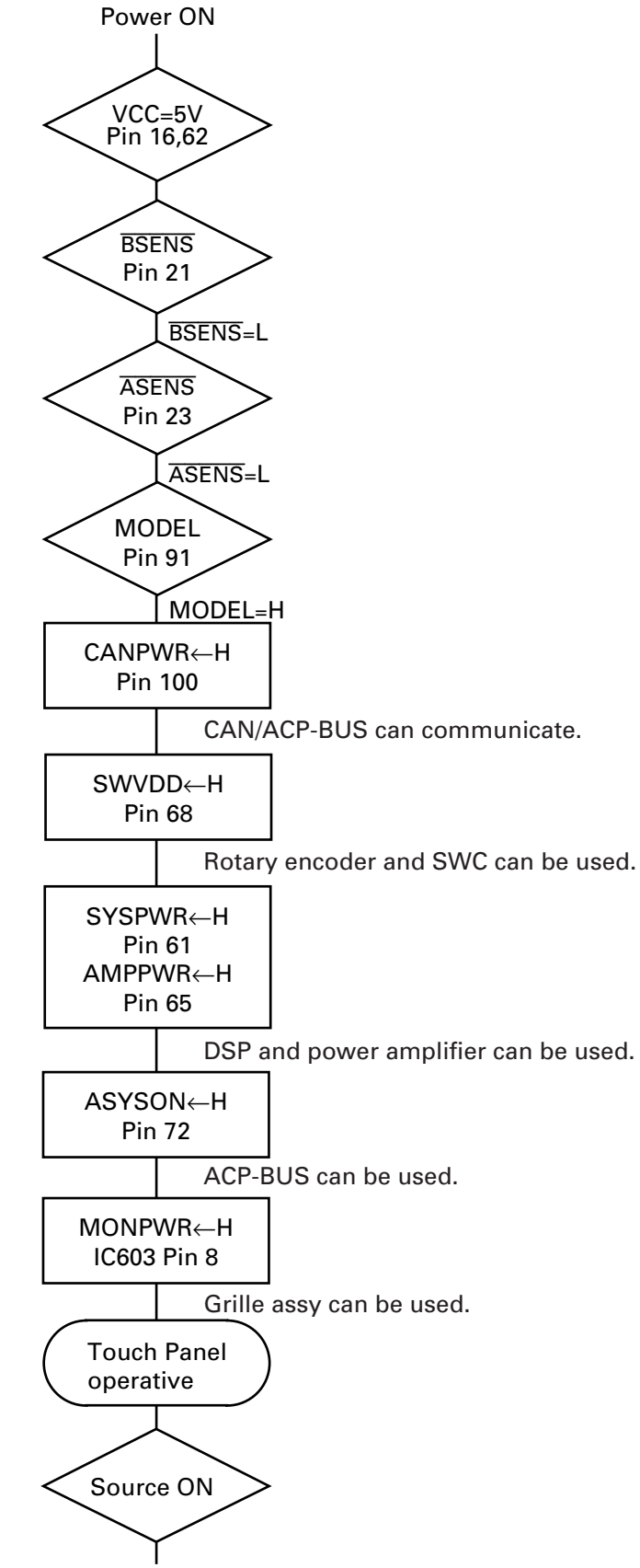
● FM/AM Tuner Unit



No.	Symbol	I/O	Explain	
1	STIND	O	stereo indicator	"Low" when the FM stereo signals are received. To be pulled up to the "VDD" at 47kΩ.
2	FMSD	O	FM station detector	"High" when signals are received. To be pulled up to the "VDD" at 47kΩ Meanwhile, 10kΩ should be used when taking diver FIX trigger from here and "High: 0.9VDD or more" and "Low: 250mV or less". (Should satisfy the diver IC specifications)
3	NL1	O	noise level-1	"High" when noise is received. Output for the RDS. GND at 47kΩ//1,800pF.
4	NL2	O	noise level-2	"High" when noise is received. Output for the RDS. GND at 36kΩ//330pF.
5	Rch	O	R channel output	FM stereo "R-ch" signal output or AM audio output. Add the specified de-emphasis constant.
6	Lch	O	L channel output	FM stereo "L-ch" signal output or AM audio output. Add the specified de-emphasis constant.
7	WC		write control	EEPROM write control. Writing permissible at "Low". Normally open.
8	SDBW	O	SD bandwidth	SD bandwidth signal output. For detection of detuning data for the RDS.
9	AMDET	O	AM detector output	AM detector output. r out < 100Ω
10	VDD		power supply	Power supply pin for the digital section. DC 5V +/- 0.25V. Be careful about overlapping noise in the logic section.
11	DGND		digital ground	Grounding for the digital section.
12	CE2	I	chip enable-2	EEPROM chip enable. Active a "Low" To be pulled up to the "VDD" at 47kΩ
13	SL	I/O	signal level	Received FM/AM signal level (strength) output. Connect the specified load resistor and capacitor (10k Ω+ 39k Ω//4,700pF)
14	DI/DO	I/O	data input/ data output	Data input/Data output To be pulled up to the "VDD" at 47kΩ
15	CK	I	clock	Clock input To be pulled up to the "VDD" at 47kΩ
16	CE1	I	chip enable-1	AF·RF chip enable. Active at "High"To be grounded at 47kΩ
17	AMPNS	O	AM PNS IF signal	IF signal output for AM PNS circuit.
18	LDET	O	lock detector	Active at "Low". To be pulled up to the "VDD" at 47kΩ
19	CREQ	I	current request	Active at "Low". To be grounded at 47kΩ
20	AMINI		AM audio input	The frequency response and the level are set by connecting an external CR network with terminal AMIN as terminal AMDET. r in = 50kΩ
21	COMP	O	composite signal	FM composite signal output. r out < 100Ω
22	VCC		power supply	Analog section power supply pin.DC 8.4V +/- 0.3V
23	LOCH	I	local high	FM local high pin. When seeking local high, apply 5V together with "LOCL".
24	FMLOCL	I	FM local low	FM local low pin. When seeking local low, apply 5V to the base of the NPN transistor with which the specified resistor is being connected to the emitter. Keep it open in case of ordinary marketed models.
25	LOCL	I	local low	FM/AM local low pin. When seeking local low, apply 5V to the base of the NPN transistor.Since this pin is exclusive for AM when the FMLOCL is in use, do not drive it under FM.
26	RFGND		RF ground	Grounding for the antenna section.
27	FMANT	I	FM antenna input	FM antenna input. 75Ω. Surge absorber (DSP-201M-S00B) is necessary.
28	AMANT	I	AM antenna input	AM antenna input. High impedance. Connect to the antenna through an L (LAU type) of 4.7μH.To cope with the power transmission line hums, insert a series circuit consisting of an L (a coil of about 100mH) + R (a resistor of 470 Ω to 2.2kΩ) between the GND.

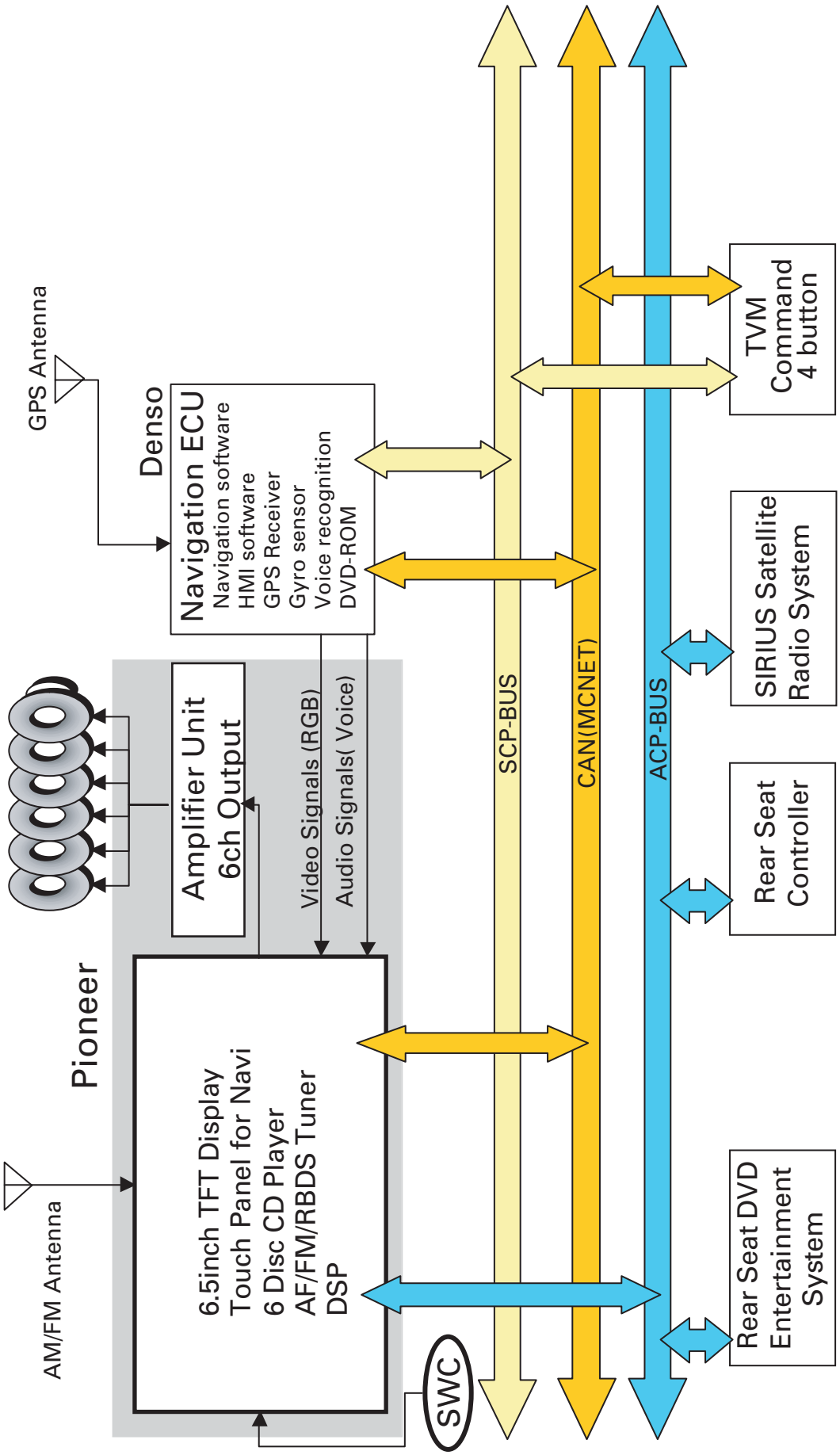
7.3 EXPLANATION

7.3.1 OPERATIONAL FLOW CHART



Completes power-on operation.
(After that, proceed to each source operation)

7.3.2 SYSTEM BLOCK DIAGRAM



7.4 NOTES ON SERVICING

7.4.1 CLEANING

Before shipping out the product, be sure to clean the following portions by using the prescribed cleaning tools:

Portions to be cleaned	Cleaning tools
CD pickup lenses	Cleaning liquid : GEM1004 Cleaning paper : GED-008

7.4.2 FACTORY SETTINGS

● When the Repair is Complete

When the repair is complete, make the CD mechanism ready for transportation.

Turing on "Shipment mode"
(to prevent damage during shipment)

●Remove all discs loaded in this product, before disconnecting the power supply connector(vehicle harness).

⇩

●Set this product to the "Shipment mode" and then disconnect the power supply connector before shipping.

⇩

●Setting the "Shipment mode"
Switch ACC OFF, and then, while simultaneously pressing the "AUDIO" and "DEST" buttons, switch ACC ON.

●Confirming "Shipment mode" setting
When Shipment mode setting is completed, 5 beep sound can be heard from car speaker.

8. OPERATIONS